wwPDB EM Validation Summary Report

Nov 5, 2024 – 02:22 AM EST

PDB ID	:	8VU3
EMDB ID	:	EMD-43525
Title	:	Cryo-EM structure of cyanobacterial PSI with bound platinum nanoparticles
Authors	:	Gisriel, C.J.; Malavath, T.; Brudvig, G.W.; Utschig, L.M.
Deposited on	:	2024-01-28
Resolution	:	2.27 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

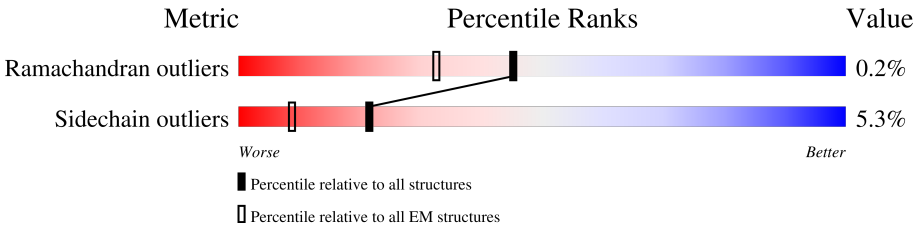
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.27 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	755	17% 93% 5%
1	G	755	14% 94%
1	a	755	17% 93% 5%
2	B	741	11% 95% 5%
2	H	741	9% 94% 5%
2	b	741	12% 95% 5%
3	C	81	6% 99%
3	N	81	5% 96%
3	c	81	7% 96%

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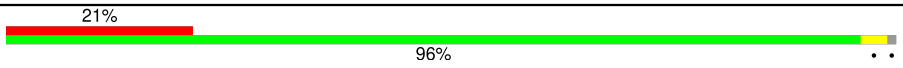
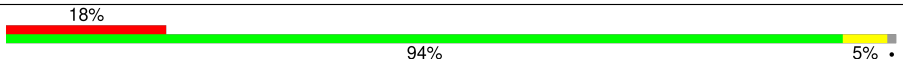
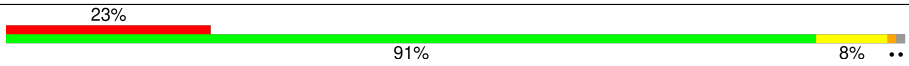
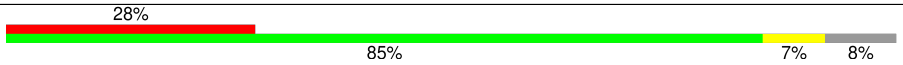
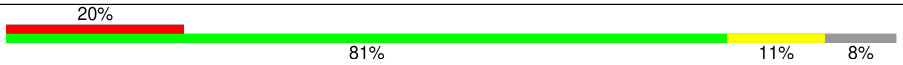
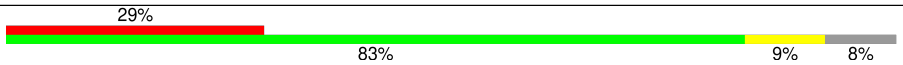
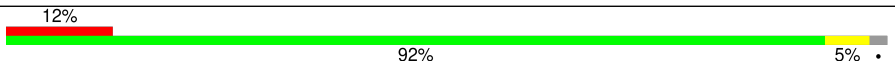
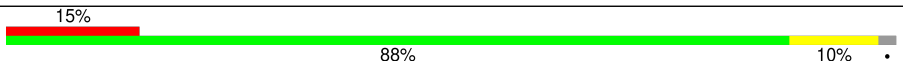
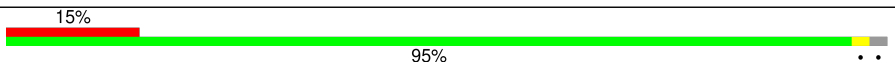
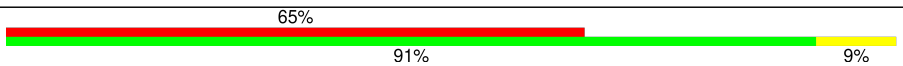
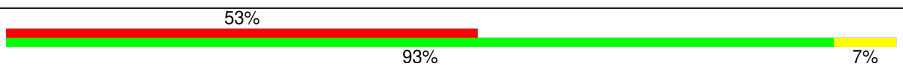
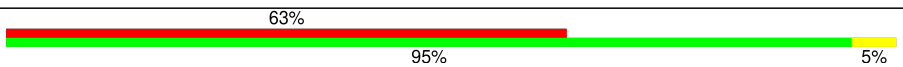
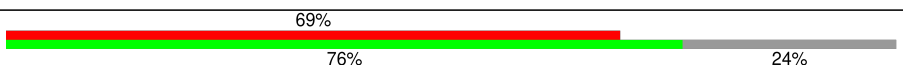
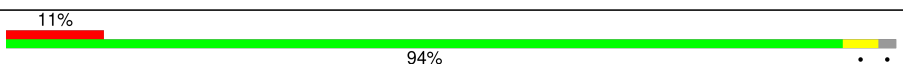
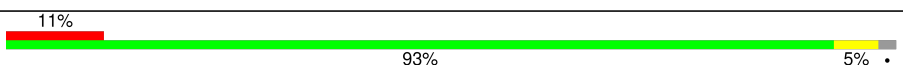
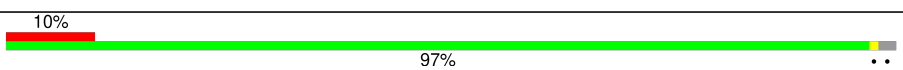
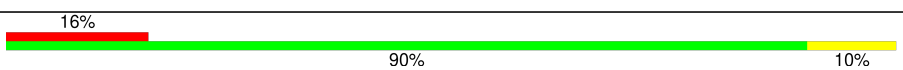
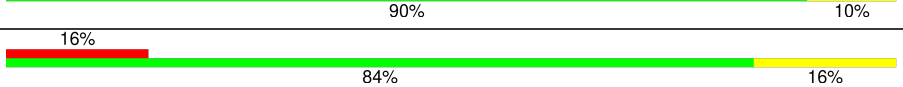
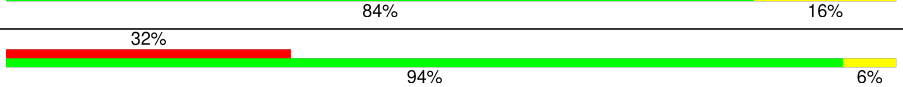
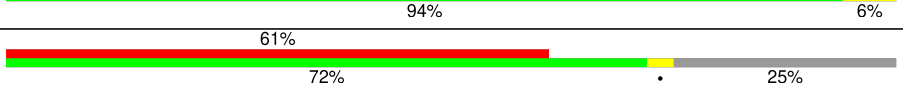
Mol	Chain	Length	Quality of chain
4	D	139	
4	O	139	
4	d	139	
5	E	75	
5	P	75	
5	e	75	
6	F	164	
6	Q	164	
6	f	164	
7	I	40	
7	R	40	
7	i	40	
8	J	43	
8	S	43	
8	j	43	
9	K	83	
9	T	83	
9	k	83	
10	L	155	
10	U	155	
10	l	155	
11	M	31	
11	V	31	
11	m	31	
12	W	36	

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Mol	Chain	Length	Quality of chain
12	X	36	
12	x	36	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CL0	A	801	X	-	-	-
13	CL0	G	801	X	-	-	-
13	CL0	a	801	X	-	-	-
14	CLA	A	802	X	-	-	-
14	CLA	A	803	X	-	-	-
14	CLA	A	804	X	-	-	-
14	CLA	A	805	X	-	-	-
14	CLA	A	806	X	-	-	-
14	CLA	A	807	X	-	-	-
14	CLA	A	808	X	-	-	-
14	CLA	A	809	X	-	-	-
14	CLA	A	810	X	-	-	-
14	CLA	A	811	X	-	-	-
14	CLA	A	812	X	-	-	-
14	CLA	A	813	X	-	-	-
14	CLA	A	814	X	-	-	-
14	CLA	A	815	X	-	-	-
14	CLA	A	816	X	-	-	-
14	CLA	A	817	X	-	-	-
14	CLA	A	818	X	-	-	-
14	CLA	A	819	X	-	-	-
14	CLA	A	820	X	-	-	-
14	CLA	A	821	X	-	-	-
14	CLA	A	822	X	-	-	-
14	CLA	A	823	X	-	-	-
14	CLA	A	824	X	-	-	-
14	CLA	A	825	X	-	-	-
14	CLA	A	826	X	-	-	-
14	CLA	A	827	X	-	-	-
14	CLA	A	828	X	-	-	-
14	CLA	A	829	X	-	-	-
14	CLA	A	830	X	-	-	-
14	CLA	A	831	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	A	832	X	-	-	-
14	CLA	A	833	X	-	-	-
14	CLA	A	834	X	-	-	-
14	CLA	A	835	X	-	-	-
14	CLA	A	836	X	-	-	-
14	CLA	A	837	X	-	-	-
14	CLA	A	838	X	-	-	-
14	CLA	A	839	X	-	-	-
14	CLA	A	840	X	-	-	-
14	CLA	A	841	X	-	-	-
14	CLA	A	842	X	-	-	-
14	CLA	A	843	X	-	-	-
14	CLA	A	844	X	-	-	-
14	CLA	A	845	X	-	-	-
14	CLA	B	801	X	-	-	-
14	CLA	B	802	X	-	-	-
14	CLA	B	803	X	-	-	-
14	CLA	B	804	X	-	-	-
14	CLA	B	805	X	-	-	-
14	CLA	B	806	X	-	-	-
14	CLA	B	807	X	-	-	-
14	CLA	B	808	X	-	-	-
14	CLA	B	809	X	-	-	-
14	CLA	B	810	X	-	-	-
14	CLA	B	811	X	-	-	-
14	CLA	B	812	X	-	-	-
14	CLA	B	813	X	-	-	-
14	CLA	B	814	X	-	-	-
14	CLA	B	815	X	-	-	-
14	CLA	B	816	X	-	-	-
14	CLA	B	817	X	-	-	-
14	CLA	B	818	X	-	-	-
14	CLA	B	819	X	-	-	-
14	CLA	B	820	X	-	-	-
14	CLA	B	821	X	-	-	-
14	CLA	B	822	X	-	-	-
14	CLA	B	823	X	-	-	-
14	CLA	B	824	X	-	-	-
14	CLA	B	825	X	-	-	-
14	CLA	B	826	X	-	-	-
14	CLA	B	827	X	-	-	-
14	CLA	B	828	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	B	829	X	-	-	-
14	CLA	B	830	X	-	-	-
14	CLA	B	831	X	-	-	-
14	CLA	B	832	X	-	-	-
14	CLA	B	833	X	-	-	-
14	CLA	B	834	X	-	-	-
14	CLA	B	835	X	-	-	-
14	CLA	B	836	X	-	-	-
14	CLA	B	837	X	-	-	-
14	CLA	B	838	X	-	-	-
14	CLA	B	839	X	-	-	-
14	CLA	B	840	X	-	-	-
14	CLA	F	1301	X	-	-	-
14	CLA	F	1303	X	-	-	-
14	CLA	G	802	X	-	-	-
14	CLA	G	803	X	-	-	-
14	CLA	G	804	X	-	-	-
14	CLA	G	805	X	-	-	-
14	CLA	G	806	X	-	-	-
14	CLA	G	807	X	-	-	-
14	CLA	G	808	X	-	-	-
14	CLA	G	809	X	-	-	-
14	CLA	G	810	X	-	-	-
14	CLA	G	811	X	-	-	-
14	CLA	G	812	X	-	-	-
14	CLA	G	813	X	-	-	-
14	CLA	G	814	X	-	-	-
14	CLA	G	815	X	-	-	-
14	CLA	G	816	X	-	-	-
14	CLA	G	817	X	-	-	-
14	CLA	G	818	X	-	-	-
14	CLA	G	819	X	-	-	-
14	CLA	G	820	X	-	-	-
14	CLA	G	821	X	-	-	-
14	CLA	G	822	X	-	-	-
14	CLA	G	823	X	-	-	-
14	CLA	G	824	X	-	-	-
14	CLA	G	825	X	-	-	-
14	CLA	G	826	X	-	-	-
14	CLA	G	827	X	-	-	-
14	CLA	G	828	X	-	-	-
14	CLA	G	829	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	G	830	X	-	-	-
14	CLA	G	831	X	-	-	-
14	CLA	G	832	X	-	-	-
14	CLA	G	833	X	-	-	-
14	CLA	G	834	X	-	-	-
14	CLA	G	835	X	-	-	-
14	CLA	G	836	X	-	-	-
14	CLA	G	837	X	-	-	-
14	CLA	G	838	X	-	-	-
14	CLA	G	839	X	-	-	-
14	CLA	G	840	X	-	-	-
14	CLA	G	841	X	-	-	-
14	CLA	G	842	X	-	-	-
14	CLA	G	843	X	-	-	-
14	CLA	G	844	X	-	-	-
14	CLA	G	845	X	-	-	-
14	CLA	H	801	X	-	-	-
14	CLA	H	802	X	-	-	-
14	CLA	H	803	X	-	-	-
14	CLA	H	804	X	-	-	-
14	CLA	H	805	X	-	-	-
14	CLA	H	806	X	-	-	-
14	CLA	H	807	X	-	-	-
14	CLA	H	808	X	-	-	-
14	CLA	H	809	X	-	-	-
14	CLA	H	810	X	-	-	-
14	CLA	H	811	X	-	-	-
14	CLA	H	812	X	-	-	-
14	CLA	H	813	X	-	-	-
14	CLA	H	814	X	-	-	-
14	CLA	H	815	X	-	-	-
14	CLA	H	816	X	-	-	-
14	CLA	H	817	X	-	-	-
14	CLA	H	818	X	-	-	-
14	CLA	H	819	X	-	-	-
14	CLA	H	820	X	-	-	-
14	CLA	H	821	X	-	-	-
14	CLA	H	822	X	-	-	-
14	CLA	H	823	X	-	-	-
14	CLA	H	824	X	-	-	-
14	CLA	H	825	X	-	-	-
14	CLA	H	826	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	H	827	X	-	-	-
14	CLA	H	828	X	-	-	-
14	CLA	H	829	X	-	-	-
14	CLA	H	830	X	-	-	-
14	CLA	H	831	X	-	-	-
14	CLA	H	832	X	-	-	-
14	CLA	H	833	X	-	-	-
14	CLA	H	834	X	-	-	-
14	CLA	H	835	X	-	-	-
14	CLA	H	836	X	-	-	-
14	CLA	H	837	X	-	-	-
14	CLA	H	838	X	-	-	-
14	CLA	H	839	X	-	-	-
14	CLA	H	840	X	-	-	-
14	CLA	J	101	X	-	-	-
14	CLA	K	101	X	-	-	-
14	CLA	K	102	X	-	-	-
14	CLA	L	201	X	-	-	-
14	CLA	L	204	X	-	-	-
14	CLA	L	205	X	-	-	-
14	CLA	L	206	X	-	-	-
14	CLA	M	1601	X	-	-	-
14	CLA	Q	201	X	-	-	-
14	CLA	Q	203	X	-	-	-
14	CLA	S	101	X	-	-	-
14	CLA	S	102	X	-	-	-
14	CLA	T	1401	X	-	-	-
14	CLA	U	201	X	-	-	-
14	CLA	U	204	X	-	-	-
14	CLA	U	205	X	-	-	-
14	CLA	U	206	X	-	-	-
14	CLA	V	1601	X	-	-	-
14	CLA	W	1701	X	-	-	-
14	CLA	X	1701	X	-	-	-
14	CLA	a	802	X	-	-	-
14	CLA	a	803	X	-	-	-
14	CLA	a	804	X	-	-	-
14	CLA	a	805	X	-	-	-
14	CLA	a	806	X	-	-	-
14	CLA	a	807	X	-	-	-
14	CLA	a	808	X	-	-	-
14	CLA	a	809	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	a	810	X	-	-	-
14	CLA	a	811	X	-	-	-
14	CLA	a	812	X	-	-	-
14	CLA	a	813	X	-	-	-
14	CLA	a	814	X	-	-	-
14	CLA	a	815	X	-	-	-
14	CLA	a	816	X	-	-	-
14	CLA	a	817	X	-	-	-
14	CLA	a	818	X	-	-	-
14	CLA	a	819	X	-	-	-
14	CLA	a	820	X	-	-	-
14	CLA	a	821	X	-	-	-
14	CLA	a	822	X	-	-	-
14	CLA	a	823	X	-	-	-
14	CLA	a	824	X	-	-	-
14	CLA	a	825	X	-	-	-
14	CLA	a	826	X	-	-	-
14	CLA	a	827	X	-	-	-
14	CLA	a	828	X	-	-	-
14	CLA	a	829	X	-	-	-
14	CLA	a	830	X	-	-	-
14	CLA	a	831	X	-	-	-
14	CLA	a	832	X	-	-	-
14	CLA	a	833	X	-	-	-
14	CLA	a	834	X	-	-	-
14	CLA	a	835	X	-	-	-
14	CLA	a	836	X	-	-	-
14	CLA	a	837	X	-	-	-
14	CLA	a	838	X	-	-	-
14	CLA	a	839	X	-	-	-
14	CLA	a	840	X	-	-	-
14	CLA	a	841	X	-	-	-
14	CLA	a	842	X	-	-	-
14	CLA	a	843	X	-	-	-
14	CLA	a	844	X	-	-	-
14	CLA	a	855	X	-	-	-
14	CLA	b	801	X	-	-	-
14	CLA	b	802	X	-	-	-
14	CLA	b	803	X	-	-	-
14	CLA	b	804	X	-	-	-
14	CLA	b	805	X	-	-	-
14	CLA	b	806	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	b	807	X	-	-	-
14	CLA	b	808	X	-	-	-
14	CLA	b	809	X	-	-	-
14	CLA	b	810	X	-	-	-
14	CLA	b	811	X	-	-	-
14	CLA	b	812	X	-	-	-
14	CLA	b	813	X	-	-	-
14	CLA	b	814	X	-	-	-
14	CLA	b	815	X	-	-	-
14	CLA	b	816	X	-	-	-
14	CLA	b	817	X	-	-	-
14	CLA	b	818	X	-	-	-
14	CLA	b	819	X	-	-	-
14	CLA	b	820	X	-	-	-
14	CLA	b	821	X	-	-	-
14	CLA	b	822	X	-	-	-
14	CLA	b	823	X	-	-	-
14	CLA	b	824	X	-	-	-
14	CLA	b	825	X	-	-	-
14	CLA	b	826	X	-	-	-
14	CLA	b	827	X	-	-	-
14	CLA	b	828	X	-	-	-
14	CLA	b	829	X	-	-	-
14	CLA	b	830	X	-	-	-
14	CLA	b	831	X	-	-	-
14	CLA	b	832	X	-	-	-
14	CLA	b	833	X	-	-	-
14	CLA	b	834	X	-	-	-
14	CLA	b	835	X	-	-	-
14	CLA	b	836	X	-	-	-
14	CLA	b	837	X	-	-	-
14	CLA	b	838	X	-	-	-
14	CLA	b	839	X	-	-	-
14	CLA	b	840	X	-	-	-
14	CLA	f	202	X	-	-	-
14	CLA	i	101	X	-	-	-
14	CLA	j	101	X	-	-	-
14	CLA	j	102	X	-	-	-
14	CLA	k	1401	X	-	-	-
14	CLA	l	202	X	-	-	-
14	CLA	l	205	X	-	-	-
14	CLA	l	206	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	l	207	X	-	-	-
14	CLA	m	1601	X	-	-	-
14	CLA	x	1701	X	-	-	-

2 Entry composition (i)

There are 20 unique types of molecules in this entry. The entry contains 71694 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	740	Total	C	N	O	S	0	0
			5777	3791	987	976	23		
1	G	740	Total	C	N	O	S	0	0
			5777	3791	987	976	23		
1	a	740	Total	C	N	O	S	0	0
			5777	3791	987	976	23		

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	739	Total	C	N	O	S	0	0
			5892	3876	988	1008	20		
2	H	739	Total	C	N	O	S	0	0
			5892	3876	988	1008	20		
2	b	739	Total	C	N	O	S	0	0
			5892	3876	988	1008	20		

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	80	Total	C	N	O	S	0	0
			598	367	103	117	11		
3	N	80	Total	C	N	O	S	0	0
			598	367	103	117	11		
3	c	80	Total	C	N	O	S	0	0
			598	367	103	117	11		

- Molecule 4 is a protein called Photosystem I reaction center subunit II.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	138	Total	C	N	O	S	0	0
			1076	683	187	203	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	O	138	Total	C	N	O	S	0	0
			1076	683	187	203	3		
4	d	138	Total	C	N	O	S	0	0
			1076	683	187	203	3		

- Molecule 5 is a protein called Photosystem I reaction center subunit IV.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E	69	Total	C	N	O	0	0
			534	337	92	105		
5	P	69	Total	C	N	O	0	0
			534	337	92	105		
5	e	69	Total	C	N	O	0	0
			534	337	92	105		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	53	GLY	SER	conflict	UNP A0A2D2Q1I4
P	53	GLY	SER	conflict	UNP A0A2D2Q1I4
e	53	GLY	SER	conflict	UNP A0A2D2Q1I4

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	141	Total	C	N	O	S	0	0
			1064	679	184	197	4		
6	Q	141	Total	C	N	O	S	0	0
			1064	679	184	197	4		
6	f	141	Total	C	N	O	S	0	0
			1064	679	184	197	4		

- Molecule 7 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	39	Total	C	N	O	S	0	0
			308	213	42	48	5		
7	R	39	Total	C	N	O	S	0	0
			308	213	42	48	5		
7	i	39	Total	C	N	O	S	0	0
			308	213	42	48	5		

- Molecule 8 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	J	43	Total	C	N	O	S	0	0
			351	237	54	58	2		
8	S	43	Total	C	N	O	S	0	0
			351	237	54	58	2		
8	j	43	Total	C	N	O	S	0	0
			351	237	54	58	2		

- Molecule 9 is a protein called Photosystem I reaction center subunit PsaK.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	K	63	Total	C	N	O	0	0
			307	181	63	63		
9	T	63	Total	C	N	O	0	0
			307	181	63	63		
9	k	63	Total	C	N	O	0	0
			307	181	63	63		

- Molecule 10 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	L	152	Total	C	N	O	S	0	0
			1125	737	181	203	4		
10	U	152	Total	C	N	O	S	0	0
			1125	737	181	203	4		
10	l	152	Total	C	N	O	S	0	0
			1125	737	181	203	4		

- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	M	31	Total	C	N	O	S	0	0
			240	161	36	42	1		
11	V	31	Total	C	N	O	S	0	0
			240	161	36	42	1		
11	m	31	Total	C	N	O	S	0	0
			240	161	36	42	1		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	27	ALA	THR	conflict	UNP A0A3B7MIX8

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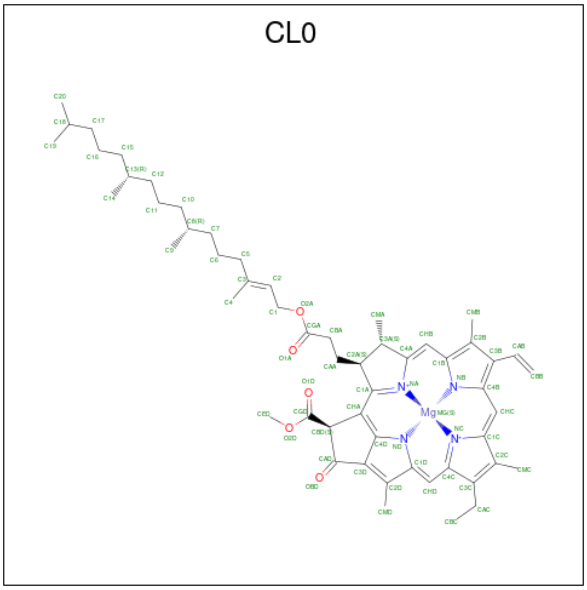
Chain	Residue	Modelled	Actual	Comment	Reference
V	27	ALA	THR	conflict	UNP A0A3B7MIX8
m	27	ALA	THR	conflict	UNP A0A3B7MIX8

- Molecule 12 is a protein called Phosphorylase.

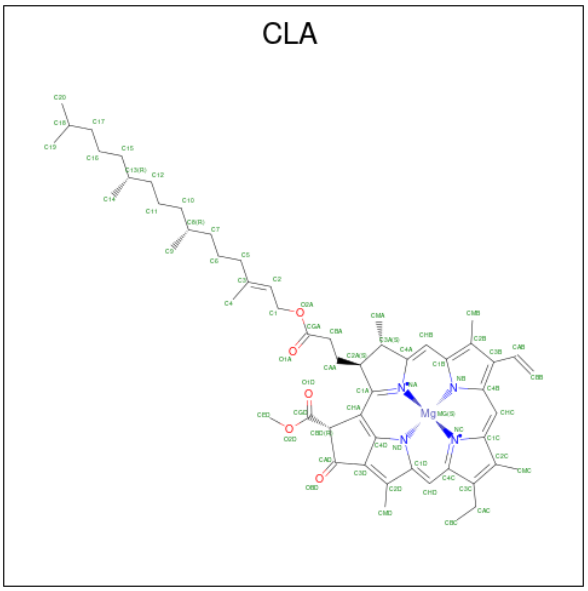
Mol	Chain	Residues	Atoms				AltConf	Trace
12	W	27	Total 228	C 162	N 32	O 34	0	0
12	X	27	Total 228	C 162	N 32	O 34	0	0
12	x	27	Total 228	C 162	N 32	O 34	0	0

- Molecule 13 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	G	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	a	1	Total 65	C 55	Mg 1	N 4	O 5	0

- Molecule 14 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms					AltConf
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 55	C 45	Mg 1	N 4	O 5	0
14	A	1	Total 55	C 45	Mg 1	N 4	O 5	0
14	A	1	Total 45	C 35	Mg 1	N 4	O 5	0
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 45	C 35	Mg 1	N 4	O 5	0
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 45	C 35	Mg 1	N 4	O 5	0
14	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
14	A	1	Total 50	C 40	Mg 1	N 4	O 5	0
14	A	1	Total 60	C 50	Mg 1	N 4	O 5	0
14	A	1	Total 45	C 35	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	F	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	F	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			50	40	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	G	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	G	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
14	G	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	H	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	H	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	J	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	K	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
14	K	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	L	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	L	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	L	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	L	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	M	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	Q	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	Q	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	S	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	S	1	Total	C	Mg	N	O	0
			37	31	1	4	1	

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Mol	Chain	Residues	Atoms					AltConf
14	T	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	U	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	U	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	U	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	U	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	V	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	W	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	X	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
14	a	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	

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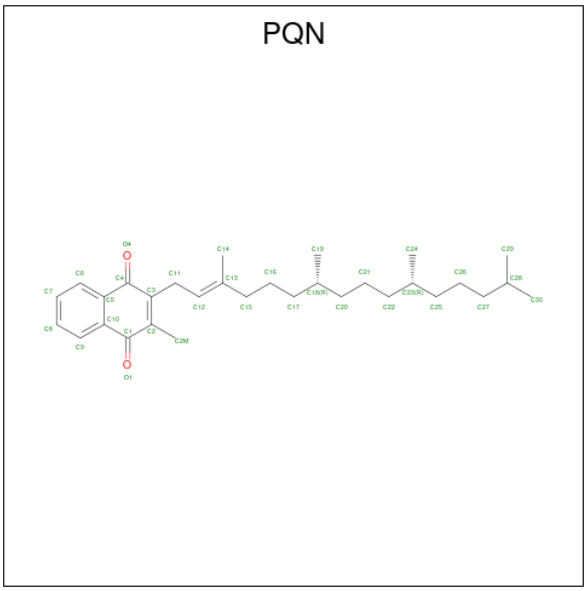
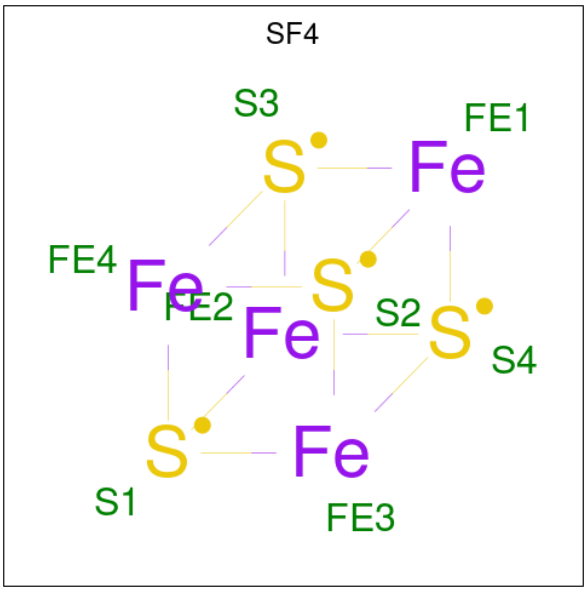
Mol	Chain	Residues	Atoms					AltConf
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	f	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	i	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	j	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	j	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
14	k	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	l	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	l	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
14	l	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	l	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
14	m	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
14	x	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

- Molecule 15 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



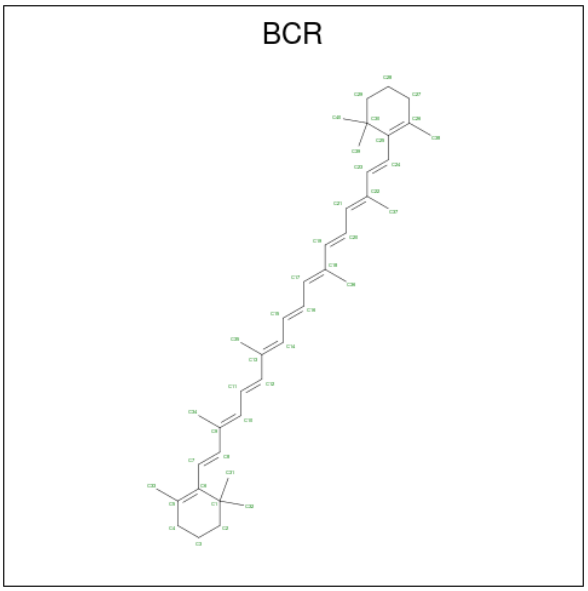
Mol	Chain	Residues	Atoms	AltConf
15	A	1	Total C O 33 31 2	0
15	B	1	Total C O 33 31 2	0
15	G	1	Total C O 33 31 2	0
15	H	1	Total C O 33 31 2	0
15	a	1	Total C O 33 31 2	0
15	b	1	Total C O 33 31 2	0

- Molecule 16 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
16	A	1	Total Fe S 8 4 4	0
16	C	1	Total Fe S 8 4 4	0
16	C	1	Total Fe S 8 4 4	0
16	G	1	Total Fe S 8 4 4	0
16	N	1	Total Fe S 8 4 4	0
16	N	1	Total Fe S 8 4 4	0
16	a	1	Total Fe S 8 4 4	0
16	c	1	Total Fe S 8 4 4	0
16	c	1	Total Fe S 8 4 4	0

- Molecule 17 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).



Mol	Chain	Residues	Atoms	AltConf
17	A	1	Total C 40 40	0
17	A	1	Total C 40 40	0
17	A	1	Total C 40 40	0
17	A	1	Total C 40 40	0
17	A	1	Total C 40 40	0
17	A	1	Total C 40 40	0
17	B	1	Total C 40 40	0
17	B	1	Total C 40 40	0
17	B	1	Total C 40 40	0
17	B	1	Total C 25 25	0
17	B	1	Total C 40 40	0
17	B	1	Total C 40 40	0
17	B	1	Total C 40 40	0
17	B	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
17	F	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	G	1	Total C 40 40	0
17	H	1	Total C 40 40	0
17	H	1	Total C 40 40	0
17	H	1	Total C 40 40	0
17	H	1	Total C 25 25	0
17	H	1	Total C 40 40	0
17	H	1	Total C 40 40	0
17	H	1	Total C 40 40	0
17	I	1	Total C 40 40	0
17	I	1	Total C 40 40	0
17	J	1	Total C 40 40	0
17	J	1	Total C 40 40	0
17	L	1	Total C 40 40	0
17	L	1	Total C 40 40	0
17	M	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
17	Q	1	Total C 40 40	0
17	Q	1	Total C 40 40	0
17	R	1	Total C 40 40	0
17	R	1	Total C 40 40	0
17	R	1	Total C 40 40	0
17	S	1	Total C 40 40	0
17	S	1	Total C 40 40	0
17	U	1	Total C 40 40	0
17	V	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	a	1	Total C 40 40	0
17	b	1	Total C 40 40	0
17	b	1	Total C 40 40	0
17	b	1	Total C 40 40	0
17	b	1	Total C 25 25	0
17	b	1	Total C 40 40	0
17	b	1	Total C 40 40	0

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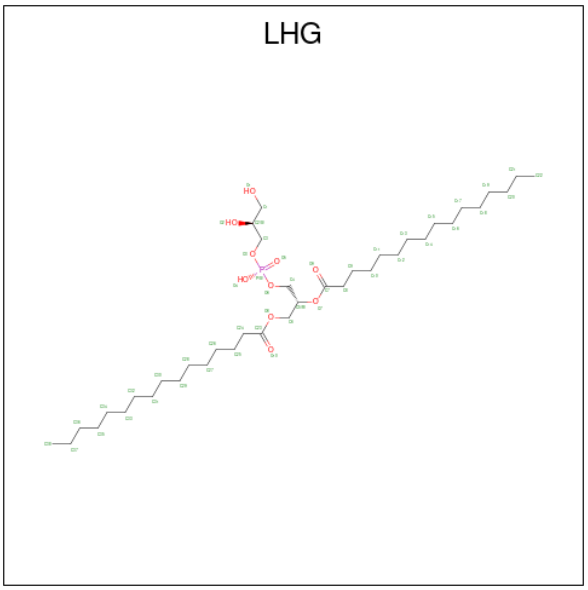
Mol	Chain	Residues	Atoms	AltConf
17	b	1	Total C 40 40	0
17	f	1	Total C 40 40	0
17	f	1	Total C 40 40	0
17	i	1	Total C 40 40	0
17	j	1	Total C 40 40	0
17	j	1	Total C 40 40	0
17	l	1	Total C 40 40	0
17	l	1	Total C 40 40	0
17	l	1	Total C 40 40	0
17	m	1	Total C 40 40	0

- Molecule 18 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms	AltConf
18	A	1	Total C O P 49 38 10 1	0

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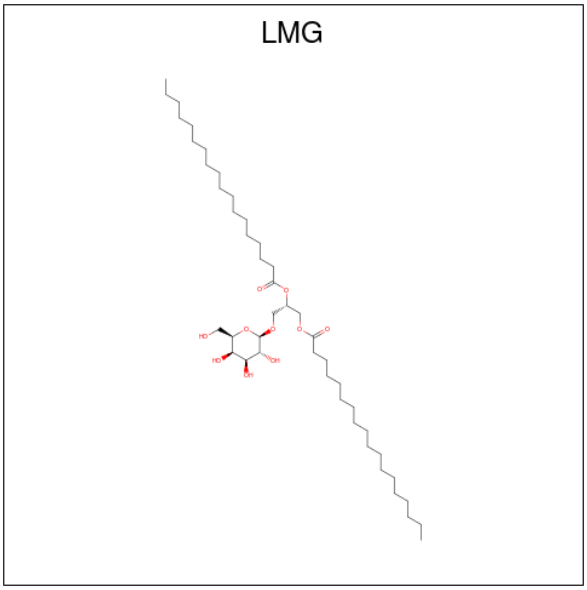
Mol	Chain	Residues	Atoms				AltConf
18	A	1	Total	C	O	P	0
			27	16	10	1	
18	G	1	Total	C	O	P	0
			49	38	10	1	
18	G	1	Total	C	O	P	0
			27	16	10	1	
18	a	1	Total	C	O	P	0
			49	38	10	1	
18	a	1	Total	C	O	P	0
			27	16	10	1	

- Molecule 19 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



Mol	Chain	Residues	Atoms			AltConf
19	B	1	Total	C	O	0
			49	39	10	
19	H	1	Total	C	O	0
			49	39	10	
19	b	1	Total	C	O	0
			49	39	10	

- Molecule 20 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
20	L	1	Total	Ca	0
			1	1	

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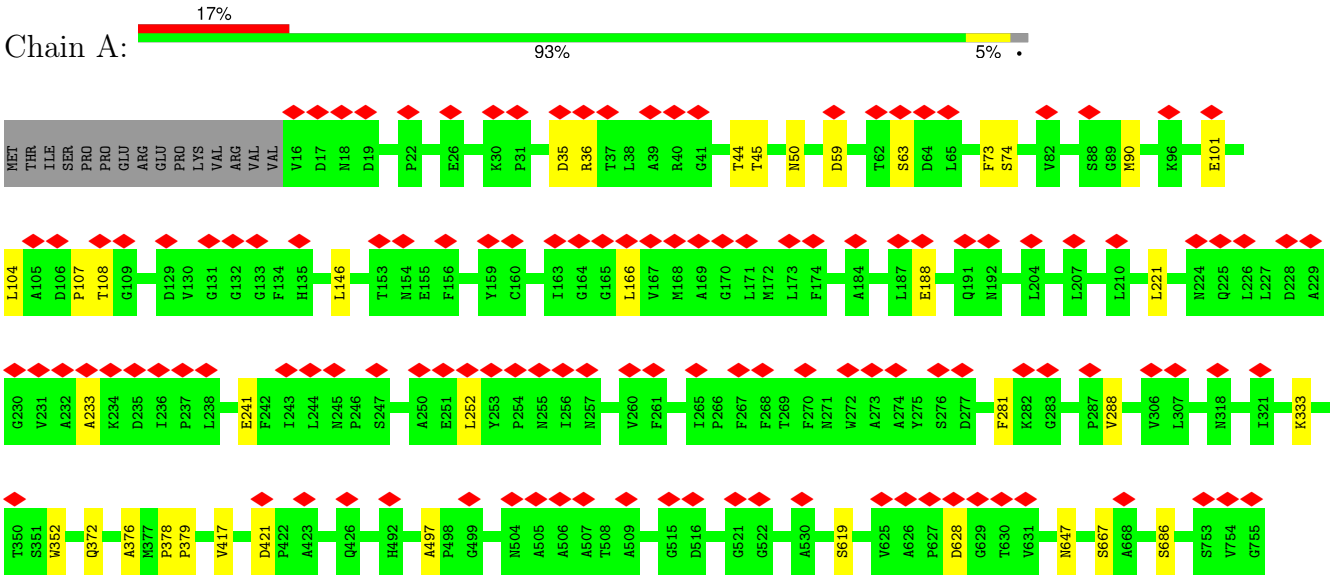
Mol	Chain	Residues	Atoms	AltConf
20	U	1	Total Ca 1 1	0
20	l	1	Total Ca 1 1	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

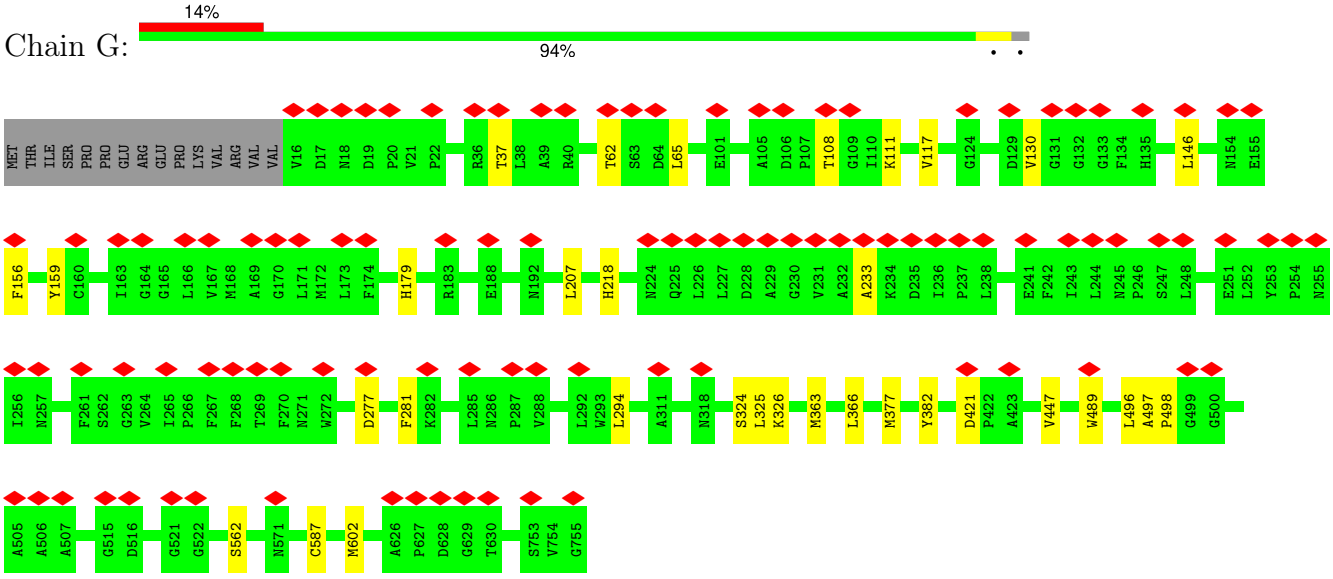
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

Chain A:



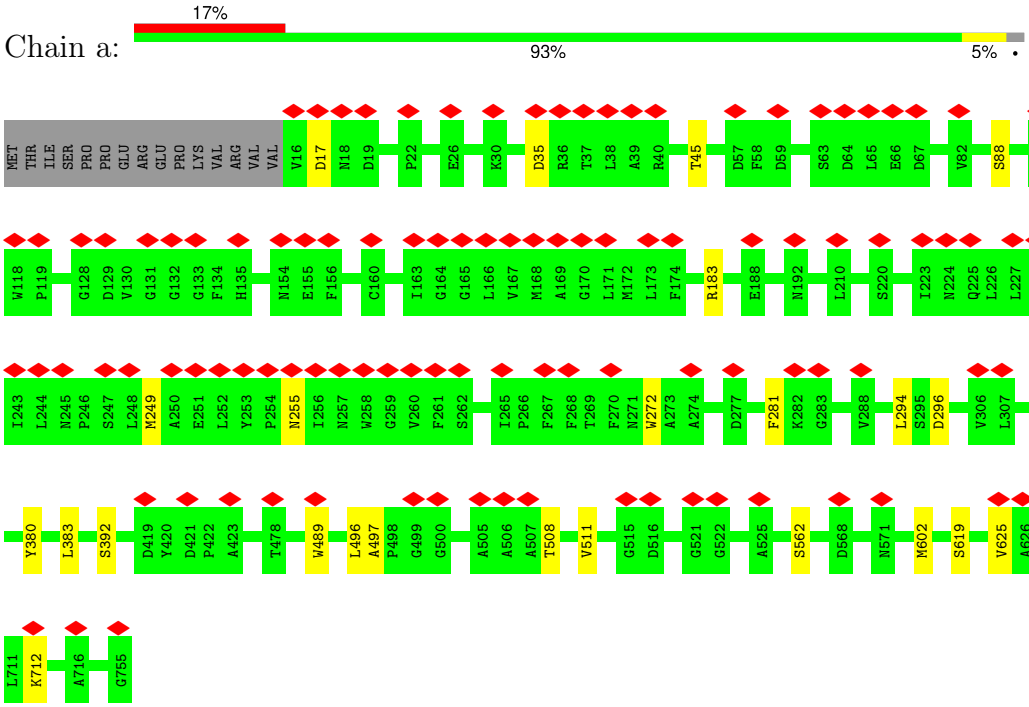
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

Chain G:



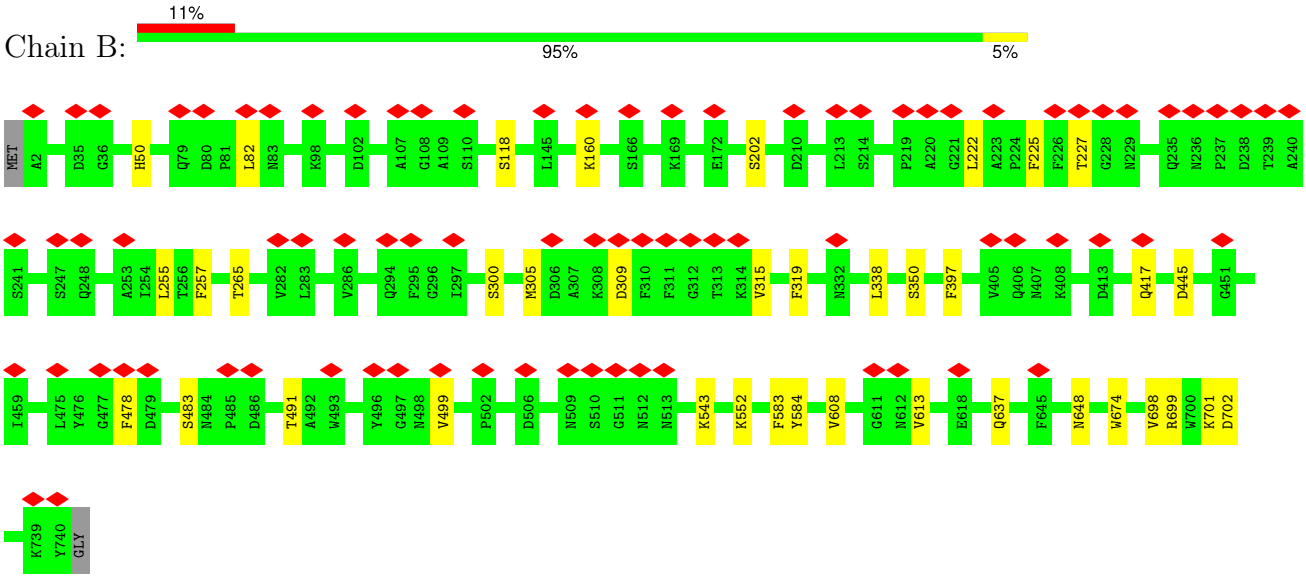
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

Chain a:



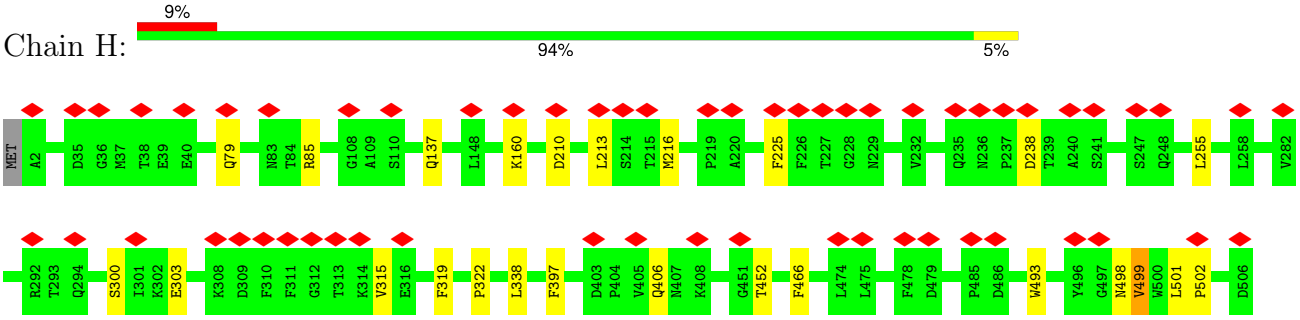
• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

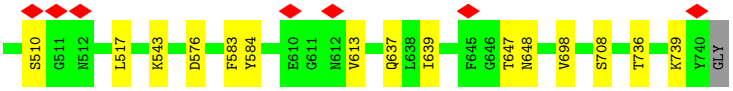
Chain B:



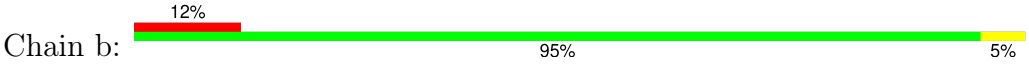
• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

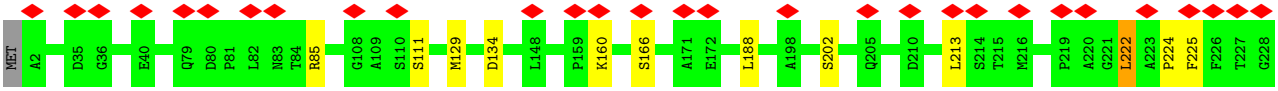
Chain H:

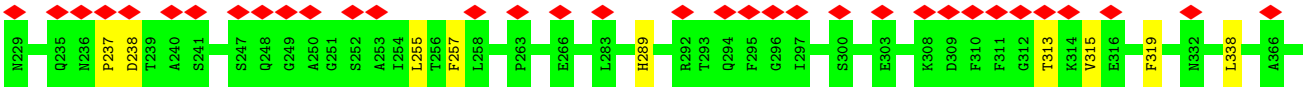


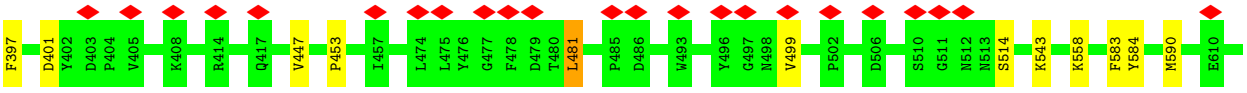


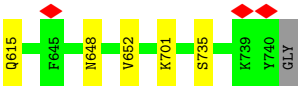
• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2



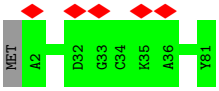




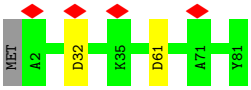




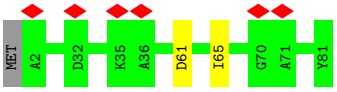
• Molecule 3: Photosystem I iron-sulfur center



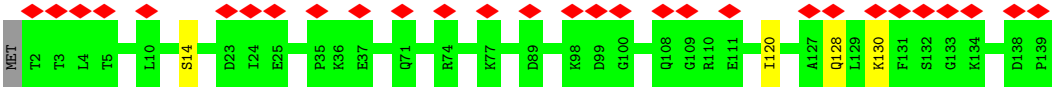
• Molecule 3: Photosystem I iron-sulfur center



• Molecule 3: Photosystem I iron-sulfur center

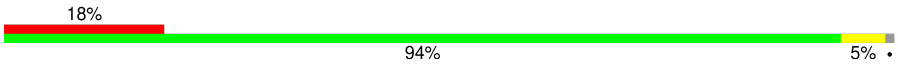


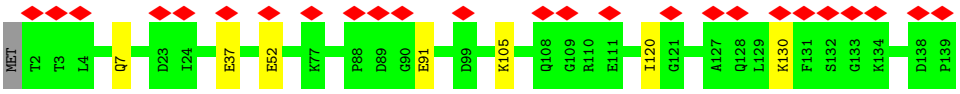
• Molecule 4: Photosystem I reaction center subunit II



• Molecule 4: Photosystem I reaction center subunit II

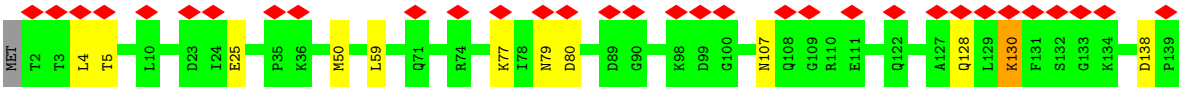
Chain O:





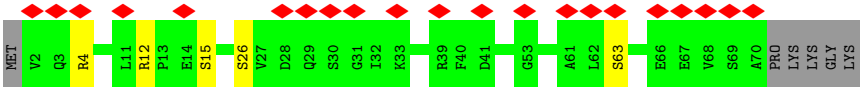
• Molecule 4: Photosystem I reaction center subunit II

Chain d:



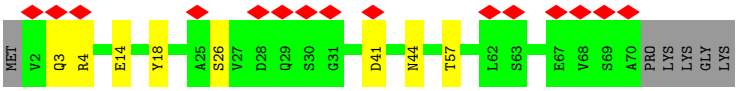
• Molecule 5: Photosystem I reaction center subunit IV

Chain E:



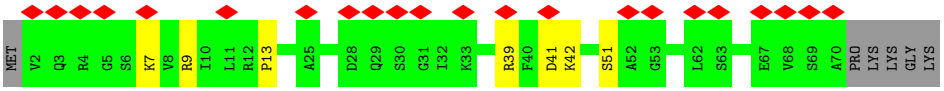
• Molecule 5: Photosystem I reaction center subunit IV

Chain P:



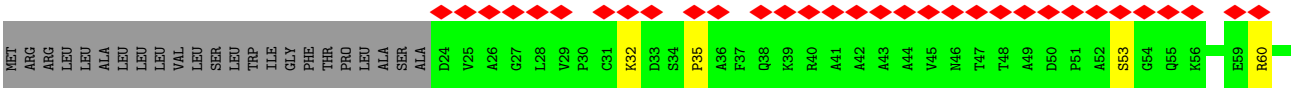
• Molecule 5: Photosystem I reaction center subunit IV

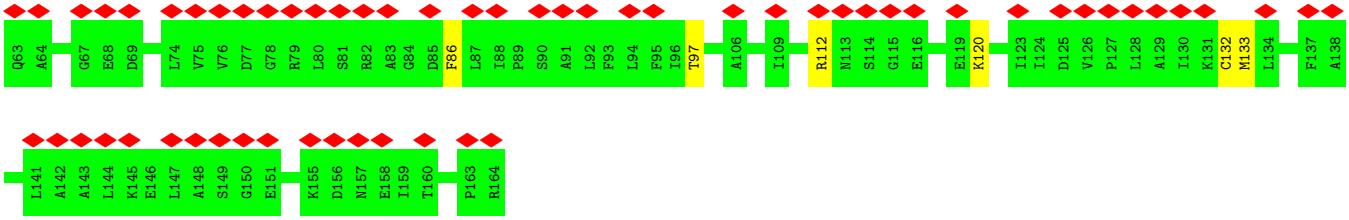
Chain e:



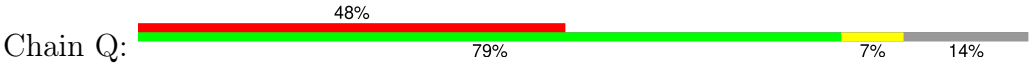
• Molecule 6: Photosystem I reaction center subunit III

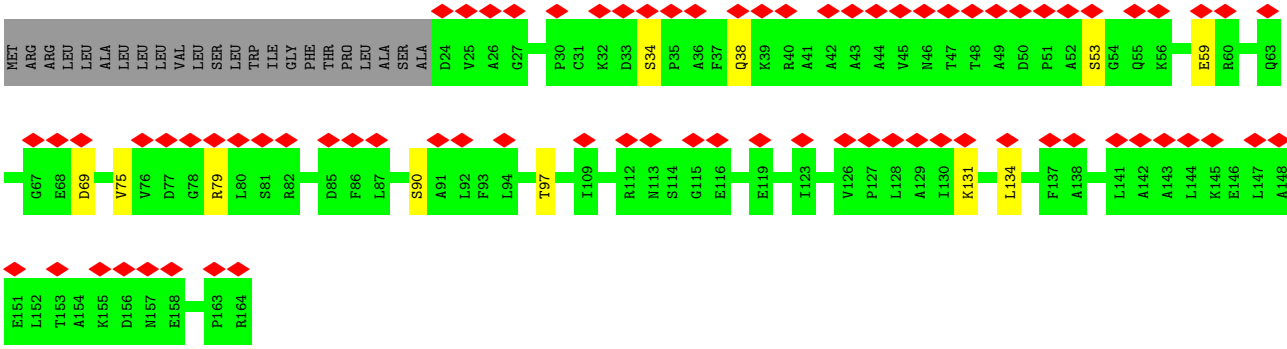
Chain F:



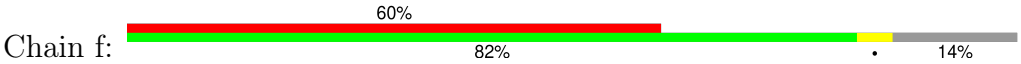


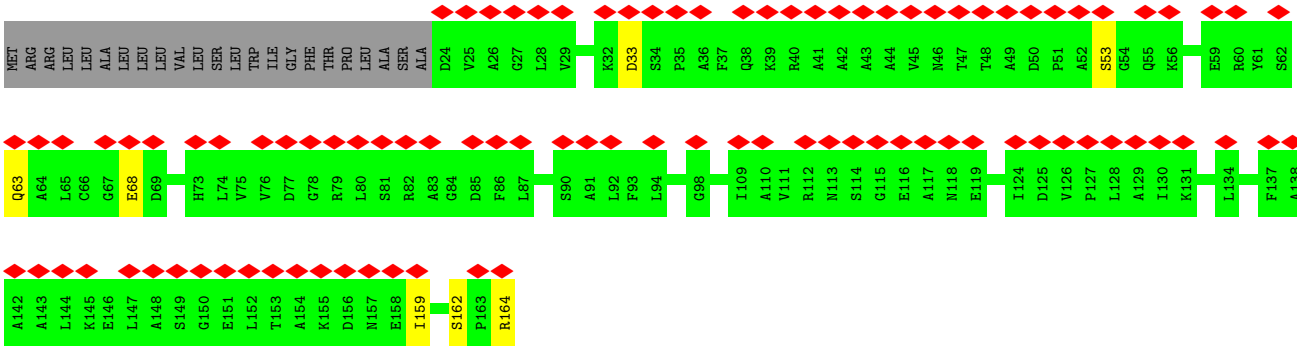
• Molecule 6: Photosystem I reaction center subunit III



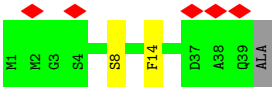


• Molecule 6: Photosystem I reaction center subunit III

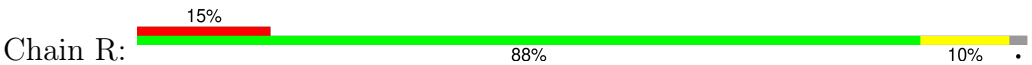


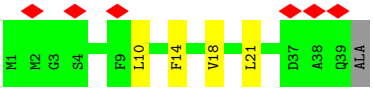


• Molecule 7: Photosystem I reaction center subunit VIII



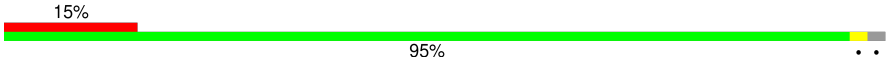
• Molecule 7: Photosystem I reaction center subunit VIII

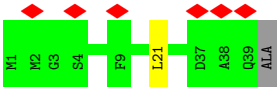




• Molecule 7: Photosystem I reaction center subunit VIII

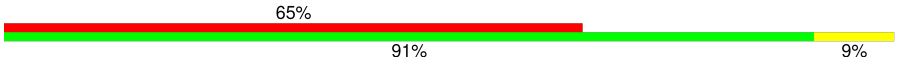
Chain i:

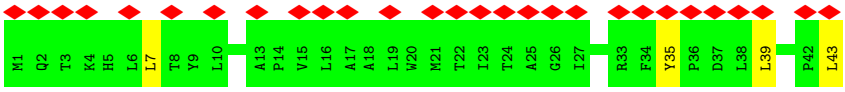




• Molecule 8: Photosystem I reaction center subunit IX

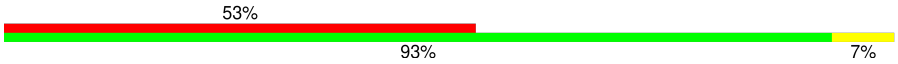
Chain J:

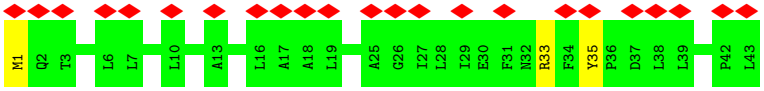




• Molecule 8: Photosystem I reaction center subunit IX

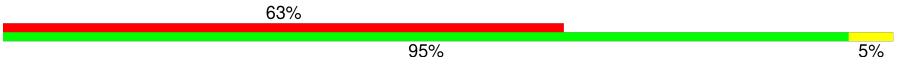
Chain S:

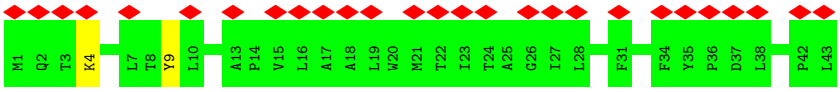




• Molecule 8: Photosystem I reaction center subunit IX

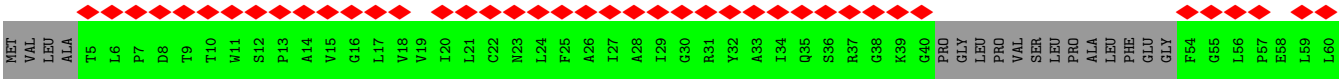
Chain j:

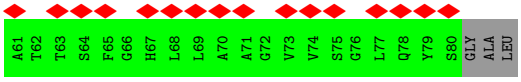




• Molecule 9: Photosystem I reaction center subunit PsaK

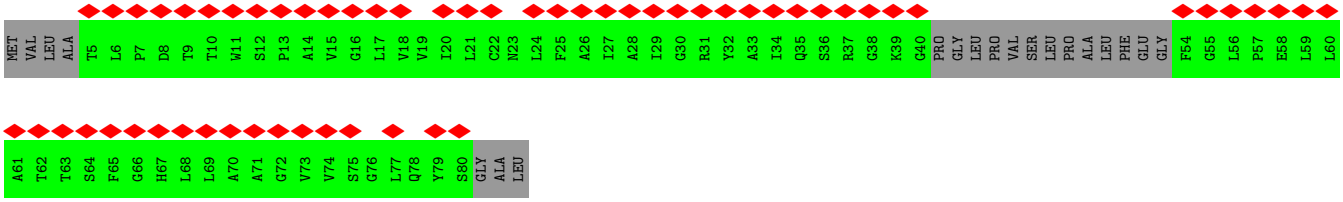
Chain K:



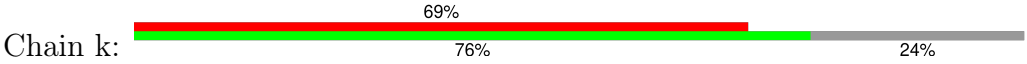


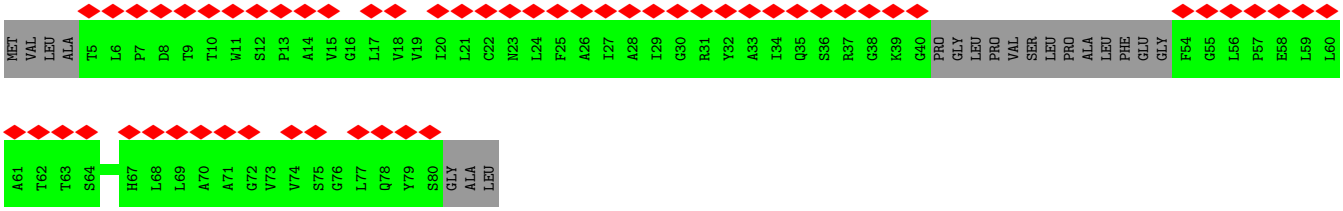
• Molecule 9: Photosystem I reaction center subunit PsaK

Chain T:

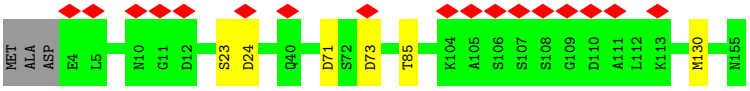


• Molecule 9: Photosystem I reaction center subunit PsaK

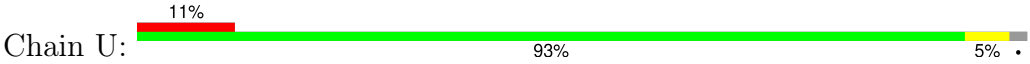


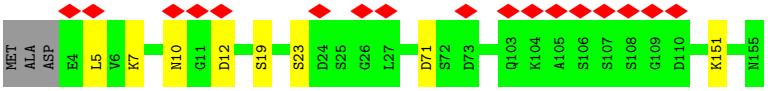


• Molecule 10: Photosystem I reaction center subunit XI

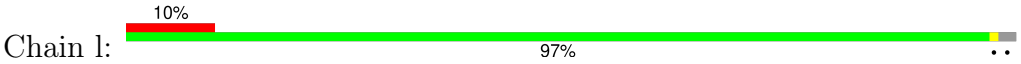


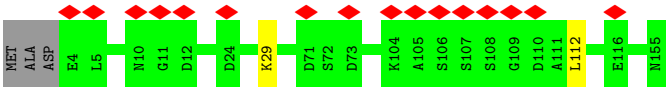
• Molecule 10: Photosystem I reaction center subunit XI



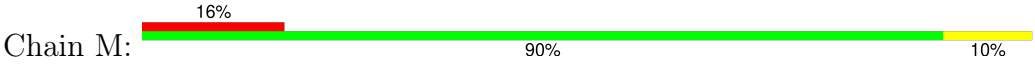


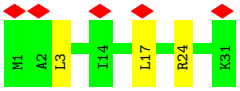
• Molecule 10: Photosystem I reaction center subunit XI





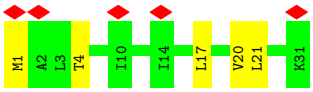
• Molecule 11: Photosystem I reaction center subunit XII





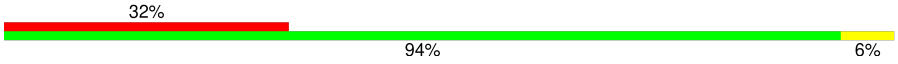
• Molecule 11: Photosystem I reaction center subunit XII

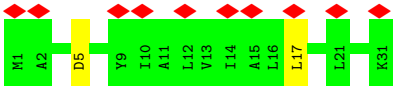
Chain V:



• Molecule 11: Photosystem I reaction center subunit XII

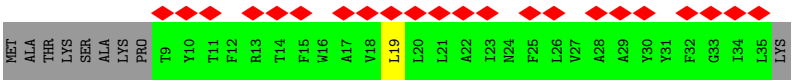
Chain m:





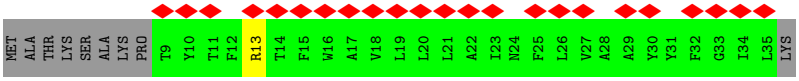
• Molecule 12: Phosphorylase

Chain W:



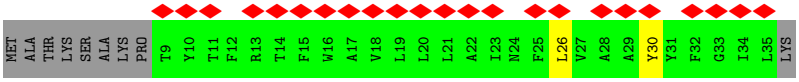
• Molecule 12: Phosphorylase

Chain X:



• Molecule 12: Phosphorylase

Chain x:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	189655	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	40	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.050	Depositor
Minimum map value	-0.018	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.00404	Depositor
Map size (Å)	297.0, 297.0, 297.0	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.825, 0.825, 0.825	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BCR, LMG, LHG, CL0, PQN, SF4, CLA, CA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.54	4/5978 (0.1%)	0.75	8/8158 (0.1%)
1	G	0.35	0/5978	0.58	5/8158 (0.1%)
1	a	0.36	0/5978	0.58	4/8158 (0.0%)
2	B	0.37	0/6110	0.59	3/8350 (0.0%)
2	H	0.44	1/6110 (0.0%)	0.64	10/8350 (0.1%)
2	b	0.51	6/6110 (0.1%)	0.79	18/8350 (0.2%)
3	C	0.33	0/608	0.60	0/824
3	N	0.32	0/608	0.62	1/824 (0.1%)
3	c	0.30	0/608	0.58	0/824
4	D	0.34	0/1101	0.65	0/1492
4	O	0.35	0/1101	0.62	0/1492
4	d	0.34	0/1101	0.65	0/1492
5	E	0.32	0/544	0.61	0/737
5	P	0.37	0/544	0.61	0/737
5	e	0.64	2/544 (0.4%)	1.40	3/737 (0.4%)
6	F	0.34	0/1086	0.70	2/1474 (0.1%)
6	Q	0.35	0/1086	0.67	0/1474
6	f	0.35	0/1086	0.61	0/1474
7	I	0.35	0/319	0.70	0/436
7	R	0.38	0/319	0.71	2/436 (0.5%)
7	i	0.39	0/319	0.74	1/436 (0.2%)
8	J	0.41	0/362	0.77	1/494 (0.2%)
8	S	0.32	0/362	0.78	1/494 (0.2%)
8	j	0.37	0/362	0.75	0/494
9	K	0.25	0/305	0.39	0/419
9	T	0.24	0/305	0.38	0/419
9	k	0.23	0/305	0.37	0/419
10	L	0.36	0/1153	0.55	0/1562
10	U	0.35	0/1153	0.55	1/1562 (0.1%)
10	l	0.33	0/1153	0.54	0/1562
11	M	0.31	0/243	0.69	1/330 (0.3%)
11	V	0.34	0/243	0.63	0/330

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
11	m	0.35	0/243	0.63	1/330 (0.3%)
12	W	0.40	0/236	0.52	0/323
12	X	0.35	0/236	0.61	0/323
12	x	0.36	0/236	0.60	1/323 (0.3%)
All	All	0.41	13/54135 (0.0%)	0.66	63/73797 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	B	0	1
4	D	0	1
4	O	0	1
4	d	0	1
6	F	0	1
All	All	0	6

The worst 5 of 13 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	b	224	PRO	CG-CD	-22.69	0.75	1.50
1	A	379	PRO	CB-CG	19.18	2.45	1.50
1	A	379	PRO	CG-CD	-19.08	0.87	1.50
2	H	502	PRO	CG-CD	-16.61	0.95	1.50
2	b	237	PRO	CG-CD	-9.96	1.17	1.50

The worst 5 of 63 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	379	PRO	CB-CG-CD	-27.30	0.01	106.50
2	b	224	PRO	N-CD-CG	-23.99	67.21	103.20
5	e	13	PRO	N-CD-CG	-23.22	68.37	103.20
5	e	13	PRO	CB-CG-CD	18.81	179.88	106.50
5	e	13	PRO	CA-CB-CG	-17.87	70.04	104.00

There are no chirality outliers.

5 of 6 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	376	ALA	Peptide
2	B	674	TRP	Peptide
4	D	130	LYS	Peptide
6	F	86	PHE	Peptide
4	O	130	LYS	Peptide

5.2 Too-close contacts (i)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	738/755 (98%)	707 (96%)	29 (4%)	2 (0%)	37	45
1	G	738/755 (98%)	708 (96%)	28 (4%)	2 (0%)	37	45
1	a	738/755 (98%)	704 (95%)	32 (4%)	2 (0%)	37	45
2	B	737/741 (100%)	701 (95%)	34 (5%)	2 (0%)	37	45
2	H	737/741 (100%)	699 (95%)	36 (5%)	2 (0%)	37	45
2	b	737/741 (100%)	698 (95%)	37 (5%)	2 (0%)	37	45
3	C	78/81 (96%)	74 (95%)	4 (5%)	0	100	100
3	N	78/81 (96%)	75 (96%)	3 (4%)	0	100	100
3	c	78/81 (96%)	75 (96%)	3 (4%)	0	100	100
4	D	136/139 (98%)	123 (90%)	13 (10%)	0	100	100
4	O	136/139 (98%)	123 (90%)	13 (10%)	0	100	100
4	d	136/139 (98%)	124 (91%)	12 (9%)	0	100	100
5	E	67/75 (89%)	65 (97%)	2 (3%)	0	100	100
5	P	67/75 (89%)	64 (96%)	3 (4%)	0	100	100
5	e	67/75 (89%)	63 (94%)	4 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	F	139/164 (85%)	126 (91%)	12 (9%)	1 (1%)	19	22
6	Q	139/164 (85%)	125 (90%)	13 (9%)	1 (1%)	19	22
6	f	139/164 (85%)	124 (89%)	14 (10%)	1 (1%)	19	22
7	I	37/40 (92%)	33 (89%)	4 (11%)	0	100	100
7	R	37/40 (92%)	35 (95%)	2 (5%)	0	100	100
7	i	37/40 (92%)	37 (100%)	0	0	100	100
8	J	41/43 (95%)	35 (85%)	6 (15%)	0	100	100
8	S	41/43 (95%)	35 (85%)	6 (15%)	0	100	100
8	j	41/43 (95%)	35 (85%)	6 (15%)	0	100	100
9	K	59/83 (71%)	54 (92%)	5 (8%)	0	100	100
9	T	59/83 (71%)	55 (93%)	4 (7%)	0	100	100
9	k	59/83 (71%)	54 (92%)	5 (8%)	0	100	100
10	L	150/155 (97%)	146 (97%)	4 (3%)	0	100	100
10	U	150/155 (97%)	144 (96%)	6 (4%)	0	100	100
10	l	150/155 (97%)	145 (97%)	5 (3%)	0	100	100
11	M	29/31 (94%)	29 (100%)	0	0	100	100
11	V	29/31 (94%)	28 (97%)	1 (3%)	0	100	100
11	m	29/31 (94%)	29 (100%)	0	0	100	100
12	W	25/36 (69%)	24 (96%)	1 (4%)	0	100	100
12	X	25/36 (69%)	24 (96%)	1 (4%)	0	100	100
12	x	25/36 (69%)	24 (96%)	1 (4%)	0	100	100
All	All	6708/7029 (95%)	6344 (95%)	349 (5%)	15 (0%)	45	53

5 of 15 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	497	ALA
2	B	315	VAL
1	G	233	ALA
1	G	497	ALA
2	H	315	VAL

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	588/603 (98%)	559 (95%)	29 (5%)	21 29
1	G	588/603 (98%)	561 (95%)	27 (5%)	23 31
1	a	588/603 (98%)	558 (95%)	30 (5%)	20 27
2	B	599/600 (100%)	567 (95%)	32 (5%)	19 25
2	H	599/600 (100%)	567 (95%)	32 (5%)	19 25
2	b	599/600 (100%)	570 (95%)	29 (5%)	21 29
3	C	67/68 (98%)	67 (100%)	0	100 100
3	N	67/68 (98%)	66 (98%)	1 (2%)	60 74
3	c	67/68 (98%)	65 (97%)	2 (3%)	36 50
4	D	115/116 (99%)	112 (97%)	3 (3%)	41 56
4	O	115/116 (99%)	109 (95%)	6 (5%)	19 26
4	d	115/116 (99%)	103 (90%)	12 (10%)	5 6
5	E	58/63 (92%)	53 (91%)	5 (9%)	8 10
5	P	58/63 (92%)	50 (86%)	8 (14%)	3 2
5	e	58/63 (92%)	52 (90%)	6 (10%)	6 6
6	F	109/128 (85%)	102 (94%)	7 (6%)	14 18
6	Q	109/128 (85%)	99 (91%)	10 (9%)	7 8
6	f	109/128 (85%)	103 (94%)	6 (6%)	18 24
7	I	33/33 (100%)	31 (94%)	2 (6%)	15 20
7	R	33/33 (100%)	31 (94%)	2 (6%)	15 20
7	i	33/33 (100%)	33 (100%)	0	100 100
8	J	38/38 (100%)	35 (92%)	3 (8%)	10 12
8	S	38/38 (100%)	36 (95%)	2 (5%)	19 25
8	j	38/38 (100%)	36 (95%)	2 (5%)	19 25
10	L	115/117 (98%)	109 (95%)	6 (5%)	19 26
10	U	115/117 (98%)	108 (94%)	7 (6%)	15 20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
10	l	115/117 (98%)	113 (98%)	2 (2%)	56 70
11	M	25/25 (100%)	23 (92%)	2 (8%)	10 11
11	V	25/25 (100%)	20 (80%)	5 (20%)	1 1
11	m	25/25 (100%)	24 (96%)	1 (4%)	27 37
12	W	22/29 (76%)	21 (96%)	1 (4%)	23 32
12	X	22/29 (76%)	21 (96%)	1 (4%)	23 32
12	x	22/29 (76%)	21 (96%)	1 (4%)	23 32
All	All	5307/5460 (97%)	5025 (95%)	282 (5%)	21 25

5 of 282 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	b	289	HIS
2	b	481	LEU
4	d	107	ASN
1	G	421	ASP
1	G	363	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 112 such sidechains are listed below:

Mol	Chain	Res	Type
2	H	417	GLN
8	j	5	HIS
12	W	24	ASN
6	f	118	ASN
2	b	407	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 381 ligands modelled in this entry, 3 are monoatomic - leaving 378 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
14	CLA	A	836	-	43,53,73	2.60	18 (41%)	50,89,113	2.73	18 (36%)
14	CLA	B	824	-	43,53,73	2.68	18 (41%)	50,89,113	2.73	19 (38%)
14	CLA	G	803	-	63,73,73	2.25	17 (26%)	74,113,113	2.35	25 (33%)
14	CLA	a	842	-	63,73,73	2.30	20 (31%)	74,113,113	2.54	23 (31%)
14	CLA	G	804	-	53,63,73	2.50	20 (37%)	62,101,113	2.72	26 (41%)
14	CLA	H	836	-	58,68,73	2.41	20 (34%)	68,107,113	2.59	24 (35%)
14	CLA	A	831	-	63,73,73	2.27	19 (30%)	74,113,113	2.39	22 (29%)
14	CLA	Q	201	-	43,53,73	2.62	17 (39%)	50,89,113	2.78	19 (38%)
14	CLA	B	817	-	58,68,73	2.36	20 (34%)	68,107,113	2.58	24 (35%)
14	CLA	U	201	2	63,73,73	2.26	21 (33%)	74,113,113	2.62	28 (37%)
17	BCR	L	202	-	41,41,41	2.73	6 (14%)	56,56,56	6.49	19 (33%)
17	BCR	j	104	-	41,41,41	2.63	7 (17%)	56,56,56	6.73	21 (37%)
18	LHG	G	854	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
14	CLA	a	823	-	43,53,73	2.65	19 (44%)	50,89,113	2.89	21 (42%)
17	BCR	A	850	-	41,41,41	2.67	6 (14%)	56,56,56	6.52	23 (41%)
14	CLA	b	823	2	48,58,73	2.59	18 (37%)	56,95,113	2.66	23 (41%)
14	CLA	B	825	-	63,73,73	2.29	19 (30%)	74,113,113	2.50	25 (33%)
14	CLA	b	821	-	53,63,73	2.51	21 (39%)	62,101,113	2.66	27 (43%)
14	CLA	A	827	-	58,68,73	2.34	18 (31%)	68,107,113	2.63	25 (36%)
14	CLA	b	828	-	63,73,73	2.29	19 (30%)	74,113,113	2.50	24 (32%)
16	SF4	C	102	3	0,12,12	-	-	-		
14	CLA	a	820	-	48,58,73	2.60	20 (41%)	56,95,113	2.91	27 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	b	820	-	43,53,73	2.59	19 (44%)	50,89,113	2.91	20 (40%)
14	CLA	A	830	-	63,73,73	2.29	19 (30%)	74,113,113	2.42	24 (32%)
14	CLA	F	1303	-	35,45,73	2.77	18 (51%)	42,78,113	2.84	18 (42%)
14	CLA	G	833	-	53,63,73	2.54	20 (37%)	62,101,113	2.67	24 (38%)
14	CLA	G	811	-	43,53,73	2.66	20 (46%)	50,89,113	2.98	22 (44%)
17	BCR	f	201	-	41,41,41	2.77	6 (14%)	56,56,56	6.57	20 (35%)
14	CLA	b	802	-	63,73,73	2.24	19 (30%)	74,113,113	2.42	22 (29%)
14	CLA	i	101	-	63,73,73	2.28	20 (31%)	74,113,113	2.48	24 (32%)
14	CLA	B	804	-	52,62,73	2.54	21 (40%)	60,99,113	2.81	24 (40%)
19	LMG	H	848	-	49,49,55	1.40	6 (12%)	57,57,63	1.05	3 (5%)
14	CLA	B	833	-	43,53,73	2.65	19 (44%)	50,89,113	2.74	20 (40%)
14	CLA	b	801	-	63,73,73	2.24	18 (28%)	74,113,113	2.50	27 (36%)
17	BCR	a	849	-	41,41,41	2.70	6 (14%)	56,56,56	6.56	23 (41%)
17	BCR	S	103	-	41,41,41	2.72	6 (14%)	56,56,56	6.53	23 (41%)
14	CLA	H	821	-	53,63,73	2.52	20 (37%)	62,101,113	2.63	23 (37%)
14	CLA	Q	203	-	43,53,73	2.66	18 (41%)	50,89,113	2.60	19 (38%)
13	CL0	G	801	-	63,73,73	2.30	19 (30%)	74,113,113	2.45	25 (33%)
14	CLA	a	809	-	63,73,73	2.29	18 (28%)	74,113,113	2.47	26 (35%)
14	CLA	G	820	-	63,73,73	2.32	21 (33%)	74,113,113	2.57	27 (36%)
18	LHG	a	854	14	26,26,48	1.27	2 (7%)	29,32,54	1.38	5 (17%)
15	PQN	a	845	-	34,34,34	1.61	2 (5%)	43,45,45	1.26	5 (11%)
14	CLA	b	809	2	63,73,73	2.24	18 (28%)	74,113,113	2.50	26 (35%)
17	BCR	G	849	-	41,41,41	2.69	6 (14%)	56,56,56	6.81	25 (44%)
14	CLA	A	824	-	43,53,73	2.68	19 (44%)	50,89,113	2.87	21 (42%)
14	CLA	B	808	-	63,73,73	2.30	19 (30%)	74,113,113	2.39	25 (33%)
14	CLA	G	802	-	63,73,73	2.23	18 (28%)	74,113,113	2.52	23 (31%)
14	CLA	a	806	-	63,73,73	2.25	19 (30%)	74,113,113	2.53	23 (31%)
14	CLA	B	815	-	43,53,73	2.68	18 (41%)	50,89,113	2.88	21 (42%)
14	CLA	H	832	-	53,63,73	2.53	22 (41%)	62,101,113	2.77	24 (38%)
14	CLA	b	833	-	43,53,73	2.66	19 (44%)	50,89,113	2.82	20 (40%)
14	CLA	b	806	-	63,73,73	2.30	20 (31%)	74,113,113	2.56	28 (37%)
14	CLA	H	809	2	63,73,73	2.27	19 (30%)	74,113,113	2.42	28 (37%)
14	CLA	G	832	-	48,58,73	2.60	19 (39%)	56,95,113	2.70	24 (42%)
14	CLA	a	821	-	63,73,73	2.32	20 (31%)	74,113,113	2.33	24 (32%)
14	CLA	A	817	-	43,53,73	2.65	20 (46%)	50,89,113	2.76	20 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	U	206	-	63,73,73	2.30	20 (31%)	74,113,113	2.44	23 (31%)
16	SF4	G	847	1,2	0,12,12	-	-	-		
14	CLA	a	808	1	63,73,73	2.24	20 (31%)	74,113,113	2.58	26 (35%)
14	CLA	B	834	-	43,53,73	2.64	19 (44%)	50,89,113	2.78	20 (40%)
15	PQN	A	846	-	34,34,34	1.63	2 (5%)	43,45,45	1.27	5 (11%)
14	CLA	A	809	1	63,73,73	2.21	20 (31%)	74,113,113	2.64	27 (36%)
17	BCR	V	1602	-	41,41,41	2.58	6 (14%)	56,56,56	6.72	20 (35%)
14	CLA	B	803	-	63,73,73	2.24	20 (31%)	74,113,113	2.47	24 (32%)
17	BCR	H	842	-	41,41,41	2.66	6 (14%)	56,56,56	6.57	18 (32%)
17	BCR	U	202	-	41,41,41	2.75	6 (14%)	56,56,56	6.58	24 (42%)
14	CLA	A	825	-	53,63,73	2.48	20 (37%)	62,101,113	2.71	24 (38%)
14	CLA	b	814	-	43,53,73	2.67	19 (44%)	50,89,113	2.96	22 (44%)
14	CLA	a	813	-	58,68,73	2.36	20 (34%)	68,107,113	2.56	24 (35%)
14	CLA	A	838	-	48,58,73	2.64	21 (43%)	56,95,113	2.82	23 (41%)
14	CLA	G	819	-	48,58,73	2.63	21 (43%)	56,95,113	2.81	25 (44%)
14	CLA	a	824	-	53,63,73	2.50	20 (37%)	62,101,113	2.68	24 (38%)
17	BCR	H	843	-	41,41,41	2.66	6 (14%)	56,56,56	6.65	21 (37%)
14	CLA	B	820	-	43,53,73	2.67	19 (44%)	50,89,113	2.94	19 (38%)
15	PQN	H	841	-	34,34,34	1.59	2 (5%)	43,45,45	1.11	3 (6%)
17	BCR	a	852	-	41,41,41	2.67	6 (14%)	56,56,56	6.67	21 (37%)
14	CLA	G	809	1	63,73,73	2.27	20 (31%)	74,113,113	2.57	27 (36%)
14	CLA	H	840	-	63,73,73	2.22	20 (31%)	74,113,113	2.59	25 (33%)
17	BCR	b	845	-	25,25,41	2.15	2 (8%)	33,33,56	7.38	15 (45%)
17	BCR	H	846	-	41,41,41	2.73	7 (17%)	56,56,56	6.61	25 (44%)
14	CLA	A	844	-	63,73,73	2.25	19 (30%)	74,113,113	2.42	25 (33%)
13	CL0	a	801	-	63,73,73	2.27	18 (28%)	74,113,113	2.41	25 (33%)
14	CLA	H	837	-	58,68,73	2.40	20 (34%)	68,107,113	2.60	23 (33%)
14	CLA	B	802	-	63,73,73	2.25	18 (28%)	74,113,113	2.50	25 (33%)
14	CLA	A	841	-	63,73,73	2.33	20 (31%)	74,113,113	2.51	23 (31%)
14	CLA	H	807	-	63,73,73	2.25	20 (31%)	74,113,113	2.49	24 (32%)
14	CLA	b	811	-	43,53,73	2.67	20 (46%)	50,89,113	2.85	21 (42%)
14	CLA	A	813	-	48,58,73	2.63	19 (39%)	56,95,113	2.68	22 (39%)
17	BCR	H	845	-	25,25,41	2.18	2 (8%)	33,33,56	7.45	20 (60%)
14	CLA	J	101	-	43,53,73	2.67	20 (46%)	50,89,113	2.89	26 (52%)
16	SF4	N	102	3	0,12,12	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
17	BCR	H	847	-	41,41,41	2.66	6 (14%)	56,56,56	6.82	17 (30%)
14	CLA	a	822	-	43,53,73	2.66	18 (41%)	50,89,113	2.85	20 (40%)
14	CLA	G	806	-	43,53,73	2.61	18 (41%)	50,89,113	2.85	20 (40%)
16	SF4	A	847	1,2	0,12,12	-	-	-		
17	BCR	A	852	-	41,41,41	2.68	6 (14%)	56,56,56	6.67	20 (35%)
14	CLA	b	822	-	43,53,73	2.68	20 (46%)	50,89,113	2.73	20 (40%)
17	BCR	f	203	-	41,41,41	2.64	6 (14%)	56,56,56	6.28	23 (41%)
14	CLA	S	101	8	43,53,73	2.67	20 (46%)	50,89,113	2.82	22 (44%)
14	CLA	a	836	1	43,53,73	2.65	19 (44%)	50,89,113	2.76	20 (40%)
14	CLA	B	806	-	63,73,73	2.24	19 (30%)	74,113,113	2.54	24 (32%)
14	CLA	A	842	-	43,53,73	2.61	18 (41%)	50,89,113	2.71	19 (38%)
14	CLA	b	836	-	58,68,73	2.43	20 (34%)	68,107,113	2.50	24 (35%)
14	CLA	G	814	-	58,68,73	2.41	21 (36%)	68,107,113	2.51	27 (39%)
14	CLA	A	826	-	63,73,73	2.31	20 (31%)	74,113,113	2.48	28 (37%)
14	CLA	H	838	-	43,53,73	2.60	19 (44%)	50,89,113	2.90	23 (46%)
14	CLA	F	1301	-	43,53,73	2.67	18 (41%)	50,89,113	2.66	21 (42%)
14	CLA	S	102	-	35,45,73	2.82	19 (54%)	42,78,113	2.85	17 (40%)
14	CLA	a	855	-	63,73,73	2.30	19 (30%)	74,113,113	2.40	25 (33%)
17	BCR	i	102	-	41,41,41	2.70	6 (14%)	56,56,56	6.73	21 (37%)
17	BCR	M	1602	-	41,41,41	2.57	6 (14%)	56,56,56	6.73	18 (32%)
17	BCR	B	847	-	41,41,41	2.69	6 (14%)	56,56,56	6.65	24 (42%)
14	CLA	B	813	-	53,63,73	2.50	19 (35%)	62,101,113	2.71	22 (35%)
14	CLA	a	835	-	43,53,73	2.62	18 (41%)	50,89,113	2.67	19 (38%)
14	CLA	A	812	14	63,73,73	2.26	21 (33%)	74,113,113	2.52	24 (32%)
14	CLA	H	828	-	63,73,73	2.32	20 (31%)	74,113,113	2.53	26 (35%)
14	CLA	G	828	-	63,73,73	2.26	20 (31%)	74,113,113	2.52	23 (31%)
18	LHG	a	853	-	48,48,48	0.91	2 (4%)	51,54,54	1.12	3 (5%)
14	CLA	H	815	-	43,53,73	2.64	18 (41%)	50,89,113	2.83	20 (40%)
16	SF4	c	102	3	0,12,12	-	-	-		
14	CLA	a	814	-	43,53,73	2.68	20 (46%)	50,89,113	2.96	22 (44%)
14	CLA	a	803	-	53,63,73	2.50	18 (33%)	62,101,113	2.72	23 (37%)
14	CLA	H	829	-	43,53,73	2.57	18 (41%)	50,89,113	2.81	22 (44%)
17	BCR	H	844	-	41,41,41	2.63	6 (14%)	56,56,56	6.47	21 (37%)
14	CLA	T	1401	-	43,53,73	2.69	20 (46%)	50,89,113	2.74	23 (46%)
14	CLA	a	826	-	58,68,73	2.33	19 (32%)	68,107,113	2.70	25 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	H	827	-	63,73,73	2.30	19 (30%)	74,113,113	2.28	22 (29%)
14	CLA	A	843	-	63,73,73	2.29	18 (28%)	74,113,113	2.41	23 (31%)
14	CLA	G	827	-	58,68,73	2.39	20 (34%)	68,107,113	2.58	26 (38%)
17	BCR	l	201	-	41,41,41	2.75	6 (14%)	56,56,56	6.32	22 (39%)
14	CLA	A	811	-	43,53,73	2.67	18 (41%)	50,89,113	2.96	22 (44%)
14	CLA	b	826	-	63,73,73	2.31	20 (31%)	74,113,113	2.41	21 (28%)
14	CLA	f	202	-	43,53,73	2.69	20 (46%)	50,89,113	2.73	23 (46%)
14	CLA	G	818	-	43,53,73	2.65	18 (41%)	50,89,113	2.84	20 (40%)
14	CLA	H	808	-	63,73,73	2.26	18 (28%)	74,113,113	2.49	24 (32%)
14	CLA	a	805	-	43,53,73	2.62	18 (41%)	50,89,113	2.84	20 (40%)
14	CLA	b	838	-	43,53,73	2.60	19 (44%)	50,89,113	2.92	21 (42%)
14	CLA	G	835	-	63,73,73	2.27	19 (30%)	74,113,113	2.50	22 (29%)
14	CLA	B	823	2	48,58,73	2.62	18 (37%)	56,95,113	2.72	22 (39%)
14	CLA	b	805	-	52,62,73	2.55	21 (40%)	60,99,113	2.80	24 (40%)
14	CLA	B	832	-	53,63,73	2.47	21 (39%)	62,101,113	2.66	24 (38%)
14	CLA	G	836	-	43,53,73	2.62	19 (44%)	50,89,113	2.70	20 (40%)
14	CLA	B	839	-	63,73,73	2.27	20 (31%)	74,113,113	2.40	24 (32%)
14	CLA	A	804	-	53,63,73	2.49	20 (37%)	62,101,113	2.71	25 (40%)
14	CLA	G	821	-	48,58,73	2.61	19 (39%)	56,95,113	2.94	26 (46%)
14	CLA	U	205	-	63,73,73	2.29	19 (30%)	74,113,113	2.54	24 (32%)
18	LHG	A	854	-	48,48,48	0.93	2 (4%)	51,54,54	1.16	4 (7%)
14	CLA	a	819	-	63,73,73	2.30	20 (31%)	74,113,113	2.52	26 (35%)
13	CL0	A	801	-	63,73,73	2.28	19 (30%)	74,113,113	2.39	23 (31%)
14	CLA	b	819	-	43,53,73	2.64	19 (44%)	50,89,113	2.88	20 (40%)
14	CLA	B	828	-	63,73,73	2.28	19 (30%)	74,113,113	2.49	25 (33%)
14	CLA	G	826	-	63,73,73	2.29	20 (31%)	74,113,113	2.42	28 (37%)
14	CLA	A	828	-	63,73,73	2.21	20 (31%)	74,113,113	2.58	27 (36%)
14	CLA	x	1701	12	43,53,73	2.66	19 (44%)	50,89,113	2.77	21 (42%)
14	CLA	b	816	-	53,63,73	2.52	20 (37%)	62,101,113	2.68	26 (41%)
14	CLA	B	829	-	43,53,73	2.57	18 (41%)	50,89,113	2.97	23 (46%)
19	LMG	b	848	-	49,49,55	1.40	6 (12%)	57,57,63	1.06	4 (7%)
17	BCR	G	848	-	41,41,41	2.66	6 (14%)	56,56,56	6.58	20 (35%)
14	CLA	a	841	-	43,53,73	2.61	17 (39%)	50,89,113	2.79	20 (40%)
14	CLA	B	835	-	43,53,73	2.66	19 (44%)	50,89,113	2.83	21 (42%)
14	CLA	A	834	-	63,73,73	2.29	20 (31%)	74,113,113	2.42	23 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	L	201	2	63,73,73	2.25	19 (30%)	74,113,113	2.65	27 (36%)
14	CLA	b	803	-	63,73,73	2.27	18 (28%)	74,113,113	2.45	25 (33%)
14	CLA	b	835	-	43,53,73	2.67	20 (46%)	50,89,113	2.76	21 (42%)
14	CLA	L	205	-	63,73,73	2.28	19 (30%)	74,113,113	2.54	25 (33%)
14	CLA	a	833	-	63,73,73	2.29	20 (31%)	74,113,113	2.43	22 (29%)
14	CLA	b	831	-	63,73,73	2.33	21 (33%)	74,113,113	2.49	26 (35%)
17	BCR	b	844	-	41,41,41	2.61	6 (14%)	56,56,56	6.63	22 (39%)
14	CLA	G	815	-	43,53,73	2.67	19 (44%)	50,89,113	2.89	21 (42%)
14	CLA	a	827	-	63,73,73	2.23	19 (30%)	74,113,113	2.71	27 (36%)
14	CLA	H	801	-	63,73,73	2.27	19 (30%)	74,113,113	2.47	28 (37%)
14	CLA	b	827	-	63,73,73	2.28	19 (30%)	74,113,113	2.37	22 (29%)
17	BCR	R	102	-	41,41,41	2.75	6 (14%)	56,56,56	6.53	25 (44%)
18	LHG	A	855	14	26,26,48	1.26	2 (7%)	29,32,54	1.19	2 (6%)
14	CLA	A	819	-	48,58,73	2.63	21 (43%)	56,95,113	2.85	22 (39%)
17	BCR	b	846	-	41,41,41	2.69	6 (14%)	56,56,56	6.59	23 (41%)
14	CLA	A	815	-	43,53,73	2.65	20 (46%)	50,89,113	2.90	22 (44%)
17	BCR	B	843	-	41,41,41	2.68	7 (17%)	56,56,56	6.66	23 (41%)
14	CLA	A	807	-	63,73,73	2.26	19 (30%)	74,113,113	2.50	24 (32%)
14	CLA	W	1701	12	43,53,73	2.65	20 (46%)	50,89,113	2.83	21 (42%)
14	CLA	G	838	-	48,58,73	2.63	20 (41%)	56,95,113	2.82	25 (44%)
14	CLA	H	812	-	63,73,73	2.26	20 (31%)	74,113,113	2.54	28 (37%)
16	SF4	C	101	3	0,12,12	-	-	-		
17	BCR	b	842	-	41,41,41	2.63	6 (14%)	56,56,56	6.56	18 (32%)
14	CLA	A	802	-	63,73,73	2.27	18 (28%)	74,113,113	2.47	27 (36%)
14	CLA	G	840	-	43,53,73	2.62	19 (44%)	50,89,113	2.78	19 (38%)
14	CLA	b	824	-	43,53,73	2.69	19 (44%)	50,89,113	2.74	19 (38%)
14	CLA	H	802	-	63,73,73	2.26	18 (28%)	74,113,113	2.44	25 (33%)
14	CLA	H	839	-	63,73,73	2.27	19 (30%)	74,113,113	2.42	23 (31%)
14	CLA	j	101	-	43,53,73	2.67	20 (46%)	50,89,113	2.95	24 (48%)
14	CLA	a	844	18	43,53,73	2.68	19 (44%)	50,89,113	3.08	24 (48%)
14	CLA	A	840	-	43,53,73	2.64	19 (44%)	50,89,113	2.75	22 (44%)
14	CLA	a	830	-	63,73,73	2.27	19 (30%)	74,113,113	2.44	25 (33%)
14	CLA	a	816	-	43,53,73	2.65	20 (46%)	50,89,113	2.78	21 (42%)
14	CLA	H	804	-	52,62,73	2.56	21 (40%)	60,99,113	2.76	25 (41%)
14	CLA	B	830	-	43,53,73	2.68	19 (44%)	50,89,113	2.82	24 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	G	810	1	63,73,73	2.29	19 (30%)	74,113,113	2.48	25 (33%)
14	CLA	b	830	-	43,53,73	2.66	20 (46%)	50,89,113	2.86	21 (42%)
14	CLA	l	207	-	63,73,73	2.29	20 (31%)	74,113,113	2.45	27 (36%)
17	BCR	a	847	-	41,41,41	2.66	6 (14%)	56,56,56	6.63	19 (33%)
14	CLA	A	833	-	53,63,73	2.57	20 (37%)	62,101,113	2.66	25 (40%)
14	CLA	A	806	-	43,53,73	2.66	18 (41%)	50,89,113	2.86	22 (44%)
14	CLA	a	825	-	63,73,73	2.35	20 (31%)	74,113,113	2.31	27 (36%)
17	BCR	R	103	-	41,41,41	2.60	6 (14%)	56,56,56	6.59	20 (35%)
17	BCR	G	853	-	41,41,41	2.69	6 (14%)	56,56,56	6.81	25 (44%)
14	CLA	B	831	-	63,73,73	2.31	20 (31%)	74,113,113	2.51	25 (33%)
14	CLA	b	825	-	63,73,73	2.32	20 (31%)	74,113,113	2.51	25 (33%)
14	CLA	a	818	-	48,58,73	2.61	20 (41%)	56,95,113	2.81	23 (41%)
14	CLA	B	822	-	43,53,73	2.62	17 (39%)	50,89,113	2.72	20 (40%)
17	BCR	G	850	-	41,41,41	2.79	6 (14%)	56,56,56	6.63	26 (46%)
14	CLA	B	801	-	63,73,73	2.26	20 (31%)	74,113,113	2.46	26 (35%)
14	CLA	b	832	-	53,63,73	2.48	21 (39%)	62,101,113	2.73	24 (38%)
14	CLA	b	818	-	63,73,73	2.33	20 (31%)	74,113,113	2.49	25 (33%)
14	CLA	A	810	1	63,73,73	2.28	19 (30%)	74,113,113	2.48	25 (33%)
17	BCR	m	1602	-	41,41,41	2.60	6 (14%)	56,56,56	6.73	20 (35%)
17	BCR	b	843	-	41,41,41	2.66	7 (17%)	56,56,56	6.72	22 (39%)
14	CLA	A	808	-	43,53,73	2.66	19 (44%)	50,89,113	2.83	23 (46%)
14	CLA	a	831	-	48,58,73	2.62	19 (39%)	56,95,113	2.70	23 (41%)
14	CLA	A	816	-	43,53,73	2.68	20 (46%)	50,89,113	2.84	21 (42%)
14	CLA	G	844	-	39,49,73	2.62	17 (43%)	46,83,113	2.86	22 (47%)
14	CLA	G	830	-	63,73,73	2.26	19 (30%)	74,113,113	2.45	23 (31%)
14	CLA	a	807	-	43,53,73	2.66	19 (44%)	50,89,113	2.81	21 (42%)
14	CLA	l	206	-	63,73,73	2.25	18 (28%)	74,113,113	2.57	23 (31%)
17	BCR	B	845	-	25,25,41	2.14	2 (8%)	33,33,56	7.43	16 (48%)
17	BCR	B	848	-	41,41,41	2.67	6 (14%)	56,56,56	6.83	22 (39%)
17	BCR	J	103	-	41,41,41	2.62	6 (14%)	56,56,56	6.99	20 (35%)
14	CLA	H	831	-	63,73,73	2.34	21 (33%)	74,113,113	2.57	27 (36%)
14	CLA	j	102	-	35,45,73	2.80	18 (51%)	42,78,113	2.85	19 (45%)
14	CLA	H	824	-	43,53,73	2.67	19 (44%)	50,89,113	2.78	21 (42%)
14	CLA	H	822	-	43,53,73	2.61	17 (39%)	50,89,113	2.83	21 (42%)
14	CLA	A	814	-	58,68,73	2.40	20 (34%)	68,107,113	2.56	26 (38%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	G	831	-	63,73,73	2.28	19 (30%)	74,113,113	2.42	24 (32%)
14	CLA	B	810	-	43,53,73	2.73	19 (44%)	50,89,113	2.80	21 (42%)
17	BCR	B	842	-	41,41,41	2.67	6 (14%)	56,56,56	6.60	18 (32%)
17	BCR	l	203	-	41,41,41	2.76	6 (14%)	56,56,56	6.44	22 (39%)
14	CLA	K	102	-	43,53,73	2.67	19 (44%)	50,89,113	2.79	21 (42%)
14	CLA	G	825	-	53,63,73	2.52	21 (39%)	62,101,113	2.60	23 (37%)
14	CLA	G	843	-	63,73,73	2.26	19 (30%)	74,113,113	2.37	24 (32%)
17	BCR	a	848	-	41,41,41	2.68	6 (14%)	56,56,56	6.74	26 (46%)
14	CLA	L	206	-	63,73,73	2.31	20 (31%)	74,113,113	2.48	25 (33%)
17	BCR	S	104	-	41,41,41	2.72	6 (14%)	56,56,56	6.88	20 (35%)
14	CLA	H	833	-	43,53,73	2.66	19 (44%)	50,89,113	2.76	21 (42%)
14	CLA	B	836	-	58,68,73	2.40	19 (32%)	68,107,113	2.54	22 (32%)
14	CLA	H	811	-	43,53,73	2.68	19 (44%)	50,89,113	2.71	18 (36%)
17	BCR	B	850	-	41,41,41	2.60	6 (14%)	56,56,56	6.57	17 (30%)
14	CLA	G	807	-	63,73,73	2.27	19 (30%)	74,113,113	2.53	23 (31%)
14	CLA	A	839	-	63,73,73	2.25	21 (33%)	74,113,113	2.51	28 (37%)
14	CLA	H	823	2	48,58,73	2.62	18 (37%)	56,95,113	2.68	23 (41%)
14	CLA	H	825	-	63,73,73	2.27	19 (30%)	74,113,113	2.53	26 (35%)
14	CLA	M	1601	-	43,53,73	2.64	19 (44%)	50,89,113	2.91	20 (40%)
14	CLA	A	829	-	63,73,73	2.28	18 (28%)	74,113,113	2.40	24 (32%)
14	CLA	H	834	-	43,53,73	2.63	19 (44%)	50,89,113	2.79	19 (38%)
17	BCR	Q	202	-	41,41,41	2.69	6 (14%)	56,56,56	6.64	19 (33%)
14	CLA	H	818	-	63,73,73	2.27	21 (33%)	74,113,113	2.50	24 (32%)
14	CLA	B	805	-	63,73,73	2.31	20 (31%)	74,113,113	2.49	27 (36%)
14	CLA	a	811	14	63,73,73	2.26	21 (33%)	74,113,113	2.54	22 (29%)
17	BCR	A	849	-	41,41,41	2.68	6 (14%)	56,56,56	6.87	27 (48%)
14	CLA	H	835	-	43,53,73	2.65	19 (44%)	50,89,113	3.17	24 (48%)
14	CLA	b	817	-	58,68,73	2.36	20 (34%)	68,107,113	2.57	23 (33%)
17	BCR	A	851	-	41,41,41	2.76	6 (14%)	56,56,56	6.72	26 (46%)
14	CLA	B	818	-	63,73,73	2.28	21 (33%)	74,113,113	2.49	24 (32%)
17	BCR	I	102	-	41,41,41	2.59	6 (14%)	56,56,56	6.64	20 (35%)
14	CLA	B	814	-	43,53,73	2.62	18 (41%)	50,89,113	2.89	21 (42%)
15	PQN	B	841	-	34,34,34	1.59	2 (5%)	43,45,45	1.15	5 (11%)
14	CLA	B	809	2	63,73,73	2.25	19 (30%)	74,113,113	2.47	26 (35%)
14	CLA	G	808	-	43,53,73	2.66	19 (44%)	50,89,113	2.82	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	B	819	-	43,53,73	2.65	19 (44%)	50,89,113	2.78	20 (40%)
14	CLA	G	845	18	43,53,73	2.61	19 (44%)	50,89,113	3.14	25 (50%)
14	CLA	A	822	-	63,73,73	2.29	20 (31%)	74,113,113	2.41	28 (37%)
14	CLA	l	205	10	58,68,73	2.39	20 (34%)	68,107,113	2.55	24 (35%)
14	CLA	H	826	-	63,73,73	2.27	19 (30%)	74,113,113	2.46	22 (29%)
17	BCR	Q	204	-	41,41,41	2.60	6 (14%)	56,56,56	6.59	22 (39%)
14	CLA	l	202	2	63,73,73	2.25	19 (30%)	74,113,113	2.69	31 (41%)
14	CLA	G	834	-	63,73,73	2.31	20 (31%)	74,113,113	2.43	22 (29%)
17	BCR	G	851	-	41,41,41	2.73	6 (14%)	56,56,56	6.71	22 (39%)
14	CLA	V	1601	-	43,53,73	2.66	19 (44%)	50,89,113	2.91	23 (46%)
14	CLA	H	805	-	63,73,73	2.29	18 (28%)	74,113,113	2.51	25 (33%)
14	CLA	a	815	-	43,53,73	2.69	20 (46%)	50,89,113	2.83	20 (40%)
14	CLA	a	810	-	43,53,73	2.69	19 (44%)	50,89,113	2.77	21 (42%)
14	CLA	H	820	-	43,53,73	2.65	19 (44%)	50,89,113	2.88	19 (38%)
14	CLA	a	812	-	48,58,73	2.65	21 (43%)	56,95,113	2.77	22 (39%)
14	CLA	b	815	-	43,53,73	2.63	19 (44%)	50,89,113	2.84	21 (42%)
14	CLA	b	810	-	43,53,73	2.72	19 (44%)	50,89,113	2.83	21 (42%)
14	CLA	B	811	-	43,53,73	2.65	19 (44%)	50,89,113	2.80	21 (42%)
15	PQN	G	846	-	34,34,34	1.59	2 (5%)	43,45,45	1.19	4 (9%)
17	BCR	I	101	-	41,41,41	2.71	7 (17%)	56,56,56	6.73	19 (33%)
17	BCR	A	848	-	41,41,41	2.61	6 (14%)	56,56,56	6.68	20 (35%)
16	SF4	c	101	3	0,12,12	-	-	-		
14	CLA	H	819	-	43,53,73	2.68	21 (48%)	50,89,113	2.84	20 (40%)
14	CLA	a	802	-	63,73,73	2.26	18 (28%)	74,113,113	2.35	24 (32%)
14	CLA	a	817	-	43,53,73	2.63	18 (41%)	50,89,113	2.74	21 (42%)
17	BCR	B	844	-	41,41,41	2.64	6 (14%)	56,56,56	6.53	22 (39%)
16	SF4	a	846	1,2	0,12,12	-	-	-		
14	CLA	a	838	-	63,73,73	2.28	20 (31%)	74,113,113	2.49	27 (36%)
14	CLA	B	827	-	63,73,73	2.32	19 (30%)	74,113,113	2.23	24 (32%)
14	CLA	B	837	-	58,68,73	2.33	19 (32%)	68,107,113	2.69	25 (36%)
14	CLA	X	1701	12	43,53,73	2.65	20 (46%)	50,89,113	2.83	20 (40%)
17	BCR	H	849	-	41,41,41	2.60	6 (14%)	56,56,56	6.41	19 (33%)
14	CLA	a	832	-	53,63,73	2.55	20 (37%)	62,101,113	2.68	25 (40%)
14	CLA	K	101	-	39,49,73	2.62	17 (43%)	46,83,113	2.78	22 (47%)
17	BCR	j	103	-	41,41,41	2.66	6 (14%)	56,56,56	6.63	23 (41%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	U	204	10	58,68,73	2.39	20 (34%)	68,107,113	2.61	21 (30%)
14	CLA	b	813	-	53,63,73	2.50	19 (35%)	62,101,113	2.68	24 (38%)
14	CLA	a	837	-	48,58,73	2.66	19 (39%)	56,95,113	2.83	26 (46%)
14	CLA	A	803	-	63,73,73	2.26	17 (26%)	74,113,113	2.36	24 (32%)
14	CLA	b	837	-	58,68,73	2.37	19 (32%)	68,107,113	2.59	24 (35%)
14	CLA	G	805	14	53,63,73	2.50	20 (37%)	62,101,113	2.79	26 (41%)
14	CLA	A	820	-	63,73,73	2.30	21 (33%)	74,113,113	2.44	28 (37%)
14	CLA	H	817	-	58,68,73	2.37	21 (36%)	68,107,113	2.57	25 (36%)
14	CLA	H	810	-	43,53,73	2.73	20 (46%)	50,89,113	2.86	22 (44%)
14	CLA	G	817	-	43,53,73	2.63	20 (46%)	50,89,113	2.76	20 (40%)
14	CLA	B	821	-	53,63,73	2.50	22 (41%)	62,101,113	2.58	24 (38%)
14	CLA	B	826	-	63,73,73	2.29	18 (28%)	74,113,113	2.46	25 (33%)
17	BCR	J	102	-	41,41,41	2.74	6 (14%)	56,56,56	6.53	22 (39%)
14	CLA	b	834	-	43,53,73	2.65	19 (44%)	50,89,113	3.05	20 (40%)
14	CLA	A	805	14	53,63,73	2.50	21 (39%)	62,101,113	2.81	26 (41%)
14	CLA	A	823	-	43,53,73	2.67	19 (44%)	50,89,113	2.91	20 (40%)
15	PQN	b	841	-	34,34,34	1.59	2 (5%)	43,45,45	1.13	5 (11%)
14	CLA	A	832	-	48,58,73	2.61	18 (37%)	56,95,113	2.70	23 (41%)
14	CLA	G	822	-	63,73,73	2.29	20 (31%)	74,113,113	2.42	26 (35%)
14	CLA	a	840	-	63,73,73	2.32	20 (31%)	74,113,113	2.47	29 (39%)
14	CLA	A	845	18	43,53,73	2.65	19 (44%)	50,89,113	3.05	24 (48%)
17	BCR	a	851	-	41,41,41	2.67	6 (14%)	56,56,56	6.61	22 (39%)
14	CLA	G	837	1	43,53,73	2.66	20 (46%)	50,89,113	2.87	21 (42%)
14	CLA	A	835	-	63,73,73	2.24	18 (28%)	74,113,113	2.42	21 (28%)
14	CLA	H	830	-	43,53,73	2.67	20 (46%)	50,89,113	2.80	22 (44%)
14	CLA	B	807	-	63,73,73	2.27	20 (31%)	74,113,113	2.48	24 (32%)
14	CLA	H	816	-	53,63,73	2.52	19 (35%)	62,101,113	2.71	26 (41%)
14	CLA	G	812	14	63,73,73	2.27	20 (31%)	74,113,113	2.60	25 (33%)
14	CLA	b	808	-	63,73,73	2.24	18 (28%)	74,113,113	2.55	24 (32%)
17	BCR	b	849	-	41,41,41	2.61	6 (14%)	56,56,56	6.61	18 (32%)
14	CLA	A	837	1	43,53,73	2.67	19 (44%)	50,89,113	2.78	21 (42%)
14	CLA	b	807	-	63,73,73	2.27	19 (30%)	74,113,113	2.50	23 (31%)
17	BCR	b	847	-	41,41,41	2.67	6 (14%)	56,56,56	6.78	18 (32%)
14	CLA	H	813	-	53,63,73	2.53	19 (35%)	62,101,113	2.63	25 (40%)
14	CLA	m	1601	-	43,53,73	2.66	20 (46%)	50,89,113	2.92	23 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	G	841	-	63,73,73	2.29	21 (33%)	74,113,113	2.49	25 (33%)
14	CLA	H	803	-	63,73,73	2.23	20 (31%)	74,113,113	2.56	25 (33%)
14	CLA	b	840	-	63,73,73	2.25	20 (31%)	74,113,113	2.60	26 (35%)
14	CLA	G	813	-	48,58,73	2.63	20 (41%)	56,95,113	2.76	24 (42%)
17	BCR	R	101	-	41,41,41	2.70	6 (14%)	56,56,56	6.74	18 (32%)
14	CLA	a	829	-	63,73,73	2.32	20 (31%)	74,113,113	2.39	26 (35%)
14	CLA	a	839	-	43,53,73	2.63	19 (44%)	50,89,113	2.78	22 (44%)
14	CLA	b	829	-	43,53,73	2.57	18 (41%)	50,89,113	2.97	24 (48%)
14	CLA	B	838	-	43,53,73	2.60	19 (44%)	50,89,113	2.83	20 (40%)
14	CLA	H	806	-	63,73,73	2.25	19 (30%)	74,113,113	2.52	25 (33%)
14	CLA	G	816	-	43,53,73	2.67	20 (46%)	50,89,113	2.84	23 (46%)
14	CLA	G	842	-	63,73,73	2.30	20 (31%)	74,113,113	2.52	26 (35%)
14	CLA	b	839	-	63,73,73	2.26	20 (31%)	74,113,113	2.48	26 (35%)
17	BCR	A	853	-	41,41,41	2.67	6 (14%)	56,56,56	6.92	20 (35%)
17	BCR	B	846	-	41,41,41	2.73	6 (14%)	56,56,56	6.59	24 (42%)
14	CLA	H	814	-	43,53,73	2.60	19 (44%)	50,89,113	2.98	21 (42%)
17	BCR	F	1302	-	41,41,41	2.59	6 (14%)	56,56,56	6.17	23 (41%)
14	CLA	b	812	-	63,73,73	2.28	21 (33%)	74,113,113	2.54	29 (39%)
14	CLA	G	824	-	43,53,73	2.64	19 (44%)	50,89,113	2.83	20 (40%)
14	CLA	A	821	-	48,58,73	2.62	20 (41%)	56,95,113	2.84	24 (42%)
14	CLA	a	843	-	39,49,73	2.63	17 (43%)	46,83,113	2.86	22 (47%)
14	CLA	B	840	-	63,73,73	2.24	19 (30%)	74,113,113	2.60	24 (32%)
14	CLA	a	828	-	63,73,73	2.29	19 (30%)	74,113,113	2.40	25 (33%)
14	CLA	G	823	-	43,53,73	2.67	18 (41%)	50,89,113	2.87	20 (40%)
14	CLA	G	839	-	63,73,73	2.28	20 (31%)	74,113,113	2.43	27 (36%)
14	CLA	L	204	10	58,68,73	2.37	20 (34%)	68,107,113	2.60	25 (36%)
14	CLA	a	834	-	63,73,73	2.27	19 (30%)	74,113,113	2.44	22 (29%)
14	CLA	a	804	14	53,63,73	2.52	20 (37%)	62,101,113	2.78	25 (40%)
14	CLA	b	804	-	63,73,73	2.24	20 (31%)	74,113,113	2.49	26 (35%)
17	BCR	G	852	-	41,41,41	2.71	6 (14%)	56,56,56	6.77	21 (37%)
14	CLA	B	812	-	63,73,73	2.29	19 (30%)	74,113,113	2.55	26 (35%)
19	LMG	B	849	-	49,49,55	1.38	6 (12%)	57,57,63	1.08	4 (7%)
17	BCR	L	207	-	41,41,41	2.73	6 (14%)	56,56,56	6.38	22 (39%)
18	LHG	G	855	14	26,26,48	1.26	2 (7%)	29,32,54	1.26	2 (6%)
14	CLA	G	829	-	63,73,73	2.30	19 (30%)	74,113,113	2.45	25 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
14	CLA	A	818	-	43,53,73	2.60	18 (41%)	50,89,113	2.75	20 (40%)
17	BCR	a	850	-	41,41,41	2.76	6 (14%)	56,56,56	6.79	22 (39%)
14	CLA	B	816	-	53,63,73	2.50	20 (37%)	62,101,113	2.68	27 (43%)
16	SF4	N	101	3	0,12,12	-	-	-		
14	CLA	k	1401	-	43,53,73	2.68	19 (44%)	50,89,113	2.76	20 (40%)
17	BCR	l	208	-	41,41,41	2.65	6 (14%)	56,56,56	6.63	20 (35%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	A	836	-	1/1/11/20	5/13/91/115	-
14	CLA	B	824	-	1/1/11/20	4/13/91/115	-
14	CLA	G	803	-	1/1/15/20	14/37/115/115	-
14	CLA	a	842	-	1/1/15/20	16/37/115/115	-
14	CLA	G	804	-	1/1/13/20	11/25/103/115	-
14	CLA	H	836	-	1/1/14/20	16/31/109/115	-
14	CLA	A	831	-	1/1/15/20	13/37/115/115	-
14	CLA	Q	201	-	1/1/11/20	6/13/91/115	-
14	CLA	B	817	-	1/1/14/20	16/31/109/115	-
14	CLA	U	201	2	1/1/15/20	10/37/115/115	-
17	BCR	L	202	-	-	10/29/63/63	0/2/2/2
17	BCR	j	104	-	-	9/29/63/63	0/2/2/2
18	LHG	G	854	-	-	28/53/53/53	-
14	CLA	a	823	-	1/1/11/20	4/13/91/115	-
17	BCR	A	850	-	-	11/29/63/63	0/2/2/2
14	CLA	b	823	2	1/1/12/20	7/19/97/115	-
14	CLA	B	825	-	1/1/15/20	12/37/115/115	-
14	CLA	b	821	-	1/1/13/20	10/25/103/115	-
14	CLA	A	827	-	1/1/14/20	10/31/109/115	-
14	CLA	b	828	-	1/1/15/20	9/37/115/115	-
16	SF4	C	102	3	-	-	0/6/5/5
14	CLA	a	820	-	1/1/12/20	9/19/97/115	-
14	CLA	b	820	-	1/1/11/20	4/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	A	830	-	1/1/15/20	15/37/115/115	-
14	CLA	F	1303	-	1/1/8/20	0/2/76/115	-
14	CLA	G	833	-	1/1/13/20	11/25/103/115	-
14	CLA	G	811	-	1/1/11/20	6/13/91/115	-
17	BCR	f	201	-	-	7/29/63/63	0/2/2/2
14	CLA	b	802	-	1/1/15/20	19/37/115/115	-
14	CLA	i	101	-	1/1/15/20	5/37/115/115	-
14	CLA	B	804	-	1/1/12/20	7/24/102/115	-
19	LMG	H	848	-	-	9/44/64/70	0/1/1/1
14	CLA	B	833	-	1/1/11/20	5/13/91/115	-
14	CLA	b	801	-	1/1/15/20	13/37/115/115	-
17	BCR	a	849	-	-	11/29/63/63	0/2/2/2
17	BCR	S	103	-	-	14/29/63/63	0/2/2/2
14	CLA	H	821	-	1/1/13/20	10/25/103/115	-
14	CLA	Q	203	-	1/1/11/20	4/13/91/115	-
13	CL0	G	801	-	3/3/20/25	6/37/135/135	-
14	CLA	a	809	-	1/1/15/20	14/37/115/115	-
14	CLA	G	820	-	1/1/15/20	17/37/115/115	-
18	LHG	a	854	14	-	19/31/31/53	-
15	PQN	a	845	-	-	8/23/43/43	0/2/2/2
14	CLA	b	809	2	1/1/15/20	18/37/115/115	-
17	BCR	G	849	-	-	11/29/63/63	0/2/2/2
14	CLA	A	824	-	1/1/11/20	4/13/91/115	-
14	CLA	B	808	-	1/1/15/20	13/37/115/115	-
14	CLA	G	802	-	1/1/15/20	12/37/115/115	-
14	CLA	a	806	-	1/1/15/20	17/37/115/115	-
14	CLA	B	815	-	1/1/11/20	4/13/91/115	-
14	CLA	H	832	-	1/1/13/20	10/25/103/115	-
14	CLA	b	833	-	1/1/11/20	6/13/91/115	-
14	CLA	b	806	-	1/1/15/20	14/37/115/115	-
14	CLA	H	809	2	1/1/15/20	11/37/115/115	-
14	CLA	G	832	-	1/1/12/20	5/19/97/115	-
14	CLA	a	821	-	1/1/15/20	12/37/115/115	-
14	CLA	A	817	-	1/1/11/20	4/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	U	206	-	1/1/15/20	16/37/115/115	-
16	SF4	G	847	1,2	-	-	0/6/5/5
14	CLA	a	808	1	1/1/15/20	17/37/115/115	-
14	CLA	B	834	-	1/1/11/20	7/13/91/115	-
15	PQN	A	846	-	-	9/23/43/43	0/2/2/2
14	CLA	A	809	1	1/1/15/20	18/37/115/115	-
17	BCR	V	1602	-	-	11/29/63/63	0/2/2/2
14	CLA	B	803	-	1/1/15/20	11/37/115/115	-
17	BCR	H	842	-	-	12/29/63/63	0/2/2/2
17	BCR	U	202	-	-	8/29/63/63	0/2/2/2
14	CLA	A	825	-	1/1/13/20	6/25/103/115	-
14	CLA	b	814	-	1/1/11/20	9/13/91/115	-
14	CLA	a	813	-	1/1/14/20	10/31/109/115	-
14	CLA	A	838	-	1/1/12/20	6/19/97/115	-
14	CLA	G	819	-	1/1/12/20	8/19/97/115	-
14	CLA	a	824	-	1/1/13/20	8/25/103/115	-
17	BCR	H	843	-	-	6/29/63/63	0/2/2/2
14	CLA	B	820	-	1/1/11/20	6/13/91/115	-
15	PQN	H	841	-	-	5/23/43/43	0/2/2/2
17	BCR	a	852	-	-	11/29/63/63	0/2/2/2
14	CLA	G	809	1	1/1/15/20	17/37/115/115	-
14	CLA	H	840	-	1/1/15/20	11/37/115/115	-
17	BCR	b	845	-	-	1/18/35/63	0/1/1/2
17	BCR	H	846	-	-	7/29/63/63	0/2/2/2
14	CLA	A	844	-	1/1/15/20	19/37/115/115	-
13	CL0	a	801	-	3/3/20/25	4/37/135/135	-
14	CLA	H	837	-	1/1/14/20	12/31/109/115	-
14	CLA	B	802	-	1/1/15/20	11/37/115/115	-
14	CLA	A	841	-	1/1/15/20	10/37/115/115	-
14	CLA	H	807	-	1/1/15/20	7/37/115/115	-
14	CLA	b	811	-	1/1/11/20	1/13/91/115	-
14	CLA	A	813	-	1/1/12/20	4/19/97/115	-
17	BCR	H	845	-	-	0/18/35/63	0/1/1/2
14	CLA	J	101	-	1/1/11/20	4/13/91/115	-
16	SF4	N	102	3	-	-	0/6/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	BCR	H	847	-	-	11/29/63/63	0/2/2/2
14	CLA	a	822	-	1/1/11/20	6/13/91/115	-
14	CLA	G	806	-	1/1/11/20	6/13/91/115	-
16	SF4	A	847	1,2	-	-	0/6/5/5
17	BCR	A	852	-	-	7/29/63/63	0/2/2/2
14	CLA	b	822	-	1/1/11/20	4/13/91/115	-
17	BCR	f	203	-	-	8/29/63/63	0/2/2/2
14	CLA	S	101	8	1/1/11/20	6/13/91/115	-
14	CLA	a	836	1	1/1/11/20	4/13/91/115	-
14	CLA	B	806	-	1/1/15/20	20/37/115/115	-
14	CLA	A	842	-	1/1/11/20	4/13/91/115	-
14	CLA	b	836	-	1/1/14/20	12/31/109/115	-
14	CLA	G	814	-	1/1/14/20	16/31/109/115	-
14	CLA	A	826	-	1/1/15/20	18/37/115/115	-
14	CLA	H	838	-	1/1/11/20	5/13/91/115	-
14	CLA	F	1301	-	1/1/11/20	4/13/91/115	-
14	CLA	S	102	-	1/1/8/20	0/2/76/115	-
14	CLA	a	855	-	1/1/15/20	15/37/115/115	-
17	BCR	i	102	-	-	6/29/63/63	0/2/2/2
17	BCR	M	1602	-	-	10/29/63/63	0/2/2/2
17	BCR	B	847	-	-	9/29/63/63	0/2/2/2
14	CLA	B	813	-	1/1/13/20	8/25/103/115	-
14	CLA	a	835	-	1/1/11/20	5/13/91/115	-
14	CLA	A	812	14	1/1/15/20	14/37/115/115	-
14	CLA	H	828	-	1/1/15/20	9/37/115/115	-
14	CLA	G	828	-	1/1/15/20	17/37/115/115	-
18	LHG	a	853	-	-	26/53/53/53	-
14	CLA	H	815	-	1/1/11/20	5/13/91/115	-
16	SF4	c	102	3	-	-	0/6/5/5
14	CLA	a	814	-	1/1/11/20	5/13/91/115	-
14	CLA	a	803	-	1/1/13/20	11/25/103/115	-
14	CLA	H	829	-	1/1/11/20	7/13/91/115	-
17	BCR	H	844	-	-	10/29/63/63	0/2/2/2
14	CLA	T	1401	-	1/1/11/20	6/13/91/115	-
14	CLA	a	826	-	1/1/14/20	9/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	H	827	-	1/1/15/20	12/37/115/115	-
14	CLA	A	843	-	1/1/15/20	19/37/115/115	-
14	CLA	G	827	-	1/1/14/20	7/31/109/115	-
17	BCR	l	201	-	-	4/29/63/63	0/2/2/2
14	CLA	A	811	-	1/1/11/20	5/13/91/115	-
14	CLA	b	826	-	1/1/15/20	17/37/115/115	-
14	CLA	f	202	-	1/1/11/20	2/13/91/115	-
14	CLA	G	818	-	1/1/11/20	4/13/91/115	-
14	CLA	H	808	-	1/1/15/20	15/37/115/115	-
14	CLA	a	805	-	1/1/11/20	6/13/91/115	-
14	CLA	b	838	-	1/1/11/20	5/13/91/115	-
14	CLA	G	835	-	1/1/15/20	14/37/115/115	-
14	CLA	B	823	2	1/1/12/20	8/19/97/115	-
14	CLA	b	805	-	1/1/12/20	8/24/102/115	-
14	CLA	B	832	-	1/1/13/20	9/25/103/115	-
14	CLA	G	836	-	1/1/11/20	5/13/91/115	-
14	CLA	B	839	-	1/1/15/20	14/37/115/115	-
14	CLA	A	804	-	1/1/13/20	12/25/103/115	-
14	CLA	G	821	-	1/1/12/20	9/19/97/115	-
14	CLA	U	205	-	1/1/15/20	11/37/115/115	-
18	LHG	A	854	-	-	32/53/53/53	-
14	CLA	a	819	-	1/1/15/20	15/37/115/115	-
13	CL0	A	801	-	3/3/20/25	9/37/135/135	-
14	CLA	b	819	-	1/1/11/20	7/13/91/115	-
14	CLA	B	828	-	1/1/15/20	8/37/115/115	-
14	CLA	G	826	-	1/1/15/20	16/37/115/115	-
14	CLA	A	828	-	1/1/15/20	13/37/115/115	-
14	CLA	x	1701	12	1/1/11/20	5/13/91/115	-
14	CLA	b	816	-	1/1/13/20	7/25/103/115	-
14	CLA	B	829	-	1/1/11/20	7/13/91/115	-
19	LMG	b	848	-	-	13/44/64/70	0/1/1/1
17	BCR	G	848	-	-	11/29/63/63	0/2/2/2
14	CLA	a	841	-	1/1/11/20	6/13/91/115	-
14	CLA	B	835	-	1/1/11/20	6/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	A	834	-	1/1/15/20	15/37/115/115	-
14	CLA	L	201	2	1/1/15/20	13/37/115/115	-
14	CLA	b	803	-	1/1/15/20	13/37/115/115	-
14	CLA	b	835	-	1/1/11/20	6/13/91/115	-
14	CLA	L	205	-	1/1/15/20	12/37/115/115	-
14	CLA	a	833	-	1/1/15/20	7/37/115/115	-
14	CLA	b	831	-	1/1/15/20	20/37/115/115	-
17	BCR	b	844	-	-	10/29/63/63	0/2/2/2
14	CLA	G	815	-	1/1/11/20	2/13/91/115	-
14	CLA	a	827	-	1/1/15/20	17/37/115/115	-
14	CLA	H	801	-	1/1/15/20	20/37/115/115	-
14	CLA	b	827	-	1/1/15/20	13/37/115/115	-
17	BCR	R	102	-	-	10/29/63/63	0/2/2/2
18	LHG	A	855	14	-	16/31/31/53	-
14	CLA	A	819	-	1/1/12/20	8/19/97/115	-
17	BCR	b	846	-	-	6/29/63/63	0/2/2/2
14	CLA	A	815	-	1/1/11/20	4/13/91/115	-
17	BCR	B	843	-	-	6/29/63/63	0/2/2/2
14	CLA	A	807	-	1/1/15/20	18/37/115/115	-
14	CLA	W	1701	12	1/1/11/20	5/13/91/115	-
14	CLA	G	838	-	1/1/12/20	5/19/97/115	-
14	CLA	H	812	-	1/1/15/20	17/37/115/115	-
16	SF4	C	101	3	-	-	0/6/5/5
17	BCR	b	842	-	-	12/29/63/63	0/2/2/2
14	CLA	A	802	-	1/1/15/20	17/37/115/115	-
14	CLA	G	840	-	1/1/11/20	3/13/91/115	-
14	CLA	b	824	-	1/1/11/20	4/13/91/115	-
14	CLA	H	802	-	1/1/15/20	15/37/115/115	-
14	CLA	H	839	-	1/1/15/20	18/37/115/115	-
14	CLA	j	101	-	1/1/11/20	6/13/91/115	-
14	CLA	a	844	18	1/1/11/20	8/13/91/115	-
14	CLA	A	840	-	1/1/11/20	3/13/91/115	-
14	CLA	a	830	-	1/1/15/20	13/37/115/115	-
14	CLA	a	816	-	1/1/11/20	3/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	H	804	-	1/1/12/20	8/24/102/115	-
14	CLA	B	830	-	1/1/11/20	7/13/91/115	-
14	CLA	G	810	1	1/1/15/20	11/37/115/115	-
14	CLA	b	830	-	1/1/11/20	7/13/91/115	-
14	CLA	l	207	-	1/1/15/20	15/37/115/115	-
17	BCR	a	847	-	-	10/29/63/63	0/2/2/2
14	CLA	A	833	-	1/1/13/20	11/25/103/115	-
14	CLA	A	806	-	1/1/11/20	6/13/91/115	-
14	CLA	a	825	-	1/1/15/20	17/37/115/115	-
17	BCR	R	103	-	-	8/29/63/63	0/2/2/2
17	BCR	G	853	-	-	13/29/63/63	0/2/2/2
14	CLA	B	831	-	1/1/15/20	18/37/115/115	-
14	CLA	b	825	-	1/1/15/20	9/37/115/115	-
14	CLA	a	818	-	1/1/12/20	9/19/97/115	-
14	CLA	B	822	-	1/1/11/20	4/13/91/115	-
17	BCR	G	850	-	-	13/29/63/63	0/2/2/2
14	CLA	B	801	-	1/1/15/20	14/37/115/115	-
14	CLA	b	832	-	1/1/13/20	12/25/103/115	-
14	CLA	b	818	-	1/1/15/20	13/37/115/115	-
14	CLA	A	810	1	1/1/15/20	12/37/115/115	-
17	BCR	m	1602	-	-	13/29/63/63	0/2/2/2
17	BCR	b	843	-	-	6/29/63/63	0/2/2/2
14	CLA	A	808	-	1/1/11/20	4/13/91/115	-
14	CLA	a	831	-	1/1/12/20	3/19/97/115	-
14	CLA	A	816	-	1/1/11/20	5/13/91/115	-
14	CLA	G	844	-	1/1/9/20	3/7/81/115	-
14	CLA	G	830	-	1/1/15/20	18/37/115/115	-
14	CLA	a	807	-	1/1/11/20	5/13/91/115	-
14	CLA	l	206	-	1/1/15/20	10/37/115/115	-
17	BCR	B	845	-	-	0/18/35/63	0/1/1/2
17	BCR	B	848	-	-	11/29/63/63	0/2/2/2
17	BCR	J	103	-	-	12/29/63/63	0/2/2/2
14	CLA	H	831	-	1/1/15/20	15/37/115/115	-
14	CLA	j	102	-	1/1/8/20	0/2/76/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	H	824	-	1/1/11/20	4/13/91/115	-
14	CLA	H	822	-	1/1/11/20	2/13/91/115	-
14	CLA	A	814	-	1/1/14/20	17/31/109/115	-
14	CLA	G	831	-	1/1/15/20	13/37/115/115	-
14	CLA	B	810	-	1/1/11/20	3/13/91/115	-
17	BCR	B	842	-	-	11/29/63/63	0/2/2/2
17	BCR	l	203	-	-	13/29/63/63	0/2/2/2
14	CLA	K	102	-	1/1/11/20	7/13/91/115	-
14	CLA	G	825	-	1/1/13/20	6/25/103/115	-
14	CLA	G	843	-	1/1/15/20	15/37/115/115	-
17	BCR	a	848	-	-	14/29/63/63	0/2/2/2
14	CLA	L	206	-	1/1/15/20	13/37/115/115	-
17	BCR	S	104	-	-	12/29/63/63	0/2/2/2
14	CLA	H	833	-	1/1/11/20	4/13/91/115	-
14	CLA	B	836	-	1/1/14/20	12/31/109/115	-
14	CLA	H	811	-	1/1/11/20	4/13/91/115	-
17	BCR	B	850	-	-	11/29/63/63	0/2/2/2
14	CLA	G	807	-	1/1/15/20	18/37/115/115	-
14	CLA	A	839	-	1/1/15/20	10/37/115/115	-
14	CLA	H	823	2	1/1/12/20	6/19/97/115	-
14	CLA	H	825	-	1/1/15/20	10/37/115/115	-
14	CLA	M	1601	-	1/1/11/20	9/13/91/115	-
14	CLA	A	829	-	1/1/15/20	17/37/115/115	-
14	CLA	H	834	-	1/1/11/20	6/13/91/115	-
17	BCR	Q	202	-	-	9/29/63/63	0/2/2/2
14	CLA	H	818	-	1/1/15/20	11/37/115/115	-
14	CLA	B	805	-	1/1/15/20	14/37/115/115	-
14	CLA	a	811	14	1/1/15/20	13/37/115/115	-
17	BCR	A	849	-	-	14/29/63/63	0/2/2/2
14	CLA	H	835	-	1/1/11/20	6/13/91/115	-
14	CLA	b	817	-	1/1/14/20	14/31/109/115	-
17	BCR	A	851	-	-	11/29/63/63	0/2/2/2
14	CLA	B	818	-	1/1/15/20	8/37/115/115	-
17	BCR	I	102	-	-	8/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	B	814	-	1/1/11/20	7/13/91/115	-
15	PQN	B	841	-	-	4/23/43/43	0/2/2/2
14	CLA	B	809	2	1/1/15/20	11/37/115/115	-
14	CLA	G	808	-	1/1/11/20	4/13/91/115	-
14	CLA	B	819	-	1/1/11/20	6/13/91/115	-
14	CLA	G	845	18	1/1/11/20	8/13/91/115	-
14	CLA	A	822	-	1/1/15/20	8/37/115/115	-
14	CLA	l	205	10	1/1/14/20	10/31/109/115	-
14	CLA	H	826	-	1/1/15/20	13/37/115/115	-
17	BCR	Q	204	-	-	5/29/63/63	0/2/2/2
14	CLA	l	202	2	1/1/15/20	7/37/115/115	-
14	CLA	G	834	-	1/1/15/20	13/37/115/115	-
17	BCR	G	851	-	-	9/29/63/63	0/2/2/2
14	CLA	V	1601	-	1/1/11/20	9/13/91/115	-
14	CLA	H	805	-	1/1/15/20	17/37/115/115	-
14	CLA	a	815	-	1/1/11/20	7/13/91/115	-
14	CLA	a	810	-	1/1/11/20	5/13/91/115	-
14	CLA	H	820	-	1/1/11/20	6/13/91/115	-
14	CLA	a	812	-	1/1/12/20	3/19/97/115	-
14	CLA	b	815	-	1/1/11/20	3/13/91/115	-
14	CLA	b	810	-	1/1/11/20	3/13/91/115	-
14	CLA	B	811	-	1/1/11/20	4/13/91/115	-
15	PQN	G	846	-	-	9/23/43/43	0/2/2/2
17	BCR	I	101	-	-	7/29/63/63	0/2/2/2
17	BCR	A	848	-	-	13/29/63/63	0/2/2/2
16	SF4	c	101	3	-	-	0/6/5/5
14	CLA	H	819	-	1/1/11/20	6/13/91/115	-
17	BCR	B	844	-	-	9/29/63/63	0/2/2/2
14	CLA	a	802	-	1/1/15/20	14/37/115/115	-
14	CLA	a	817	-	1/1/11/20	3/13/91/115	-
16	SF4	a	846	1,2	-	-	0/6/5/5
14	CLA	a	838	-	1/1/15/20	9/37/115/115	-
14	CLA	B	827	-	1/1/15/20	12/37/115/115	-
14	CLA	B	837	-	1/1/14/20	9/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	X	1701	12	1/1/11/20	6/13/91/115	-
17	BCR	H	849	-	-	12/29/63/63	0/2/2/2
14	CLA	a	832	-	1/1/13/20	11/25/103/115	-
14	CLA	K	101	-	1/1/9/20	4/7/81/115	-
17	BCR	j	103	-	-	9/29/63/63	0/2/2/2
14	CLA	U	204	10	1/1/14/20	13/31/109/115	-
14	CLA	b	813	-	1/1/13/20	8/25/103/115	-
14	CLA	a	837	-	1/1/12/20	6/19/97/115	-
14	CLA	A	803	-	1/1/15/20	15/37/115/115	-
14	CLA	b	837	-	1/1/14/20	9/31/109/115	-
14	CLA	G	805	14	1/1/13/20	8/25/103/115	-
14	CLA	A	820	-	1/1/15/20	13/37/115/115	-
14	CLA	H	817	-	1/1/14/20	13/31/109/115	-
14	CLA	H	810	-	1/1/11/20	3/13/91/115	-
14	CLA	G	817	-	1/1/11/20	3/13/91/115	-
14	CLA	B	821	-	1/1/13/20	9/25/103/115	-
14	CLA	B	826	-	1/1/15/20	18/37/115/115	-
17	BCR	J	102	-	-	13/29/63/63	0/2/2/2
14	CLA	b	834	-	1/1/11/20	7/13/91/115	-
14	CLA	A	805	14	1/1/13/20	12/25/103/115	-
14	CLA	A	823	-	1/1/11/20	6/13/91/115	-
15	PQN	b	841	-	-	9/23/43/43	0/2/2/2
14	CLA	A	832	-	1/1/12/20	5/19/97/115	-
14	CLA	G	822	-	1/1/15/20	13/37/115/115	-
14	CLA	a	840	-	1/1/15/20	8/37/115/115	-
14	CLA	A	845	18	1/1/11/20	6/13/91/115	-
17	BCR	a	851	-	-	6/29/63/63	0/2/2/2
14	CLA	G	837	1	1/1/11/20	5/13/91/115	-
14	CLA	A	835	-	1/1/15/20	12/37/115/115	-
14	CLA	H	830	-	1/1/11/20	7/13/91/115	-
14	CLA	B	807	-	1/1/15/20	6/37/115/115	-
14	CLA	H	816	-	1/1/13/20	10/25/103/115	-
14	CLA	G	812	14	1/1/15/20	13/37/115/115	-
14	CLA	b	808	-	1/1/15/20	11/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	BCR	b	849	-	-	9/29/63/63	0/2/2/2
14	CLA	A	837	1	1/1/11/20	5/13/91/115	-
14	CLA	b	807	-	1/1/15/20	18/37/115/115	-
17	BCR	b	847	-	-	9/29/63/63	0/2/2/2
14	CLA	H	813	-	1/1/13/20	9/25/103/115	-
14	CLA	m	1601	-	1/1/11/20	7/13/91/115	-
14	CLA	G	841	-	1/1/15/20	11/37/115/115	-
14	CLA	H	803	-	1/1/15/20	11/37/115/115	-
14	CLA	b	840	-	1/1/15/20	17/37/115/115	-
14	CLA	G	813	-	1/1/12/20	4/19/97/115	-
17	BCR	R	101	-	-	6/29/63/63	0/2/2/2
14	CLA	a	829	-	1/1/15/20	16/37/115/115	-
14	CLA	a	839	-	1/1/11/20	3/13/91/115	-
14	CLA	b	829	-	1/1/11/20	6/13/91/115	-
14	CLA	B	838	-	1/1/11/20	5/13/91/115	-
14	CLA	H	806	-	1/1/15/20	19/37/115/115	-
14	CLA	G	816	-	1/1/11/20	5/13/91/115	-
14	CLA	G	842	-	1/1/15/20	18/37/115/115	-
14	CLA	b	839	-	1/1/15/20	15/37/115/115	-
17	BCR	A	853	-	-	16/29/63/63	0/2/2/2
17	BCR	B	846	-	-	9/29/63/63	0/2/2/2
14	CLA	H	814	-	1/1/11/20	9/13/91/115	-
17	BCR	F	1302	-	-	10/29/63/63	0/2/2/2
14	CLA	b	812	-	1/1/15/20	22/37/115/115	-
14	CLA	G	824	-	1/1/11/20	5/13/91/115	-
14	CLA	A	821	-	1/1/12/20	7/19/97/115	-
14	CLA	a	843	-	1/1/9/20	3/7/81/115	-
14	CLA	B	840	-	1/1/15/20	11/37/115/115	-
14	CLA	a	828	-	1/1/15/20	18/37/115/115	-
14	CLA	G	823	-	1/1/11/20	5/13/91/115	-
14	CLA	G	839	-	1/1/15/20	12/37/115/115	-
14	CLA	L	204	10	1/1/14/20	13/31/109/115	-
14	CLA	a	834	-	1/1/15/20	11/37/115/115	-
14	CLA	a	804	14	1/1/13/20	12/25/103/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	b	804	-	1/1/15/20	16/37/115/115	-
17	BCR	G	852	-	-	7/29/63/63	0/2/2/2
14	CLA	B	812	-	1/1/15/20	22/37/115/115	-
19	LMG	B	849	-	-	13/44/64/70	0/1/1/1
17	BCR	L	207	-	-	5/29/63/63	0/2/2/2
18	LHG	G	855	14	-	14/31/31/53	-
14	CLA	G	829	-	1/1/15/20	17/37/115/115	-
14	CLA	A	818	-	1/1/11/20	4/13/91/115	-
17	BCR	a	850	-	-	13/29/63/63	0/2/2/2
14	CLA	B	816	-	1/1/13/20	8/25/103/115	-
16	SF4	N	101	3	-	-	0/6/5/5
14	CLA	k	1401	-	1/1/11/20	7/13/91/115	-
17	BCR	l	208	-	-	8/29/63/63	0/2/2/2

The worst 5 of 5995 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	G	850	BCR	C8-C9	-9.07	1.26	1.46
17	l	203	BCR	C8-C9	-8.85	1.27	1.46
17	U	202	BCR	C8-C9	-8.81	1.27	1.46
17	a	850	BCR	C8-C9	-8.74	1.27	1.46
17	R	102	BCR	C8-C9	-8.69	1.27	1.46

The worst 5 of 8181 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	G	849	BCR	C20-C21-C22	25.63	163.23	127.28
17	J	103	BCR	C16-C17-C18	25.34	162.82	127.28
17	A	849	BCR	C20-C21-C22	25.16	162.56	127.28
17	A	853	BCR	C20-C21-C22	24.52	161.67	127.28
17	H	847	BCR	C20-C21-C22	24.46	161.58	127.28

5 of 294 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	A	801	CL0	NC
13	A	801	CL0	NA
13	A	801	CL0	ND
13	G	801	CL0	NC

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Mol	Chain	Res	Type	Atom
13	G	801	CL0	NA

5 of 3575 torsion outliers are listed below:

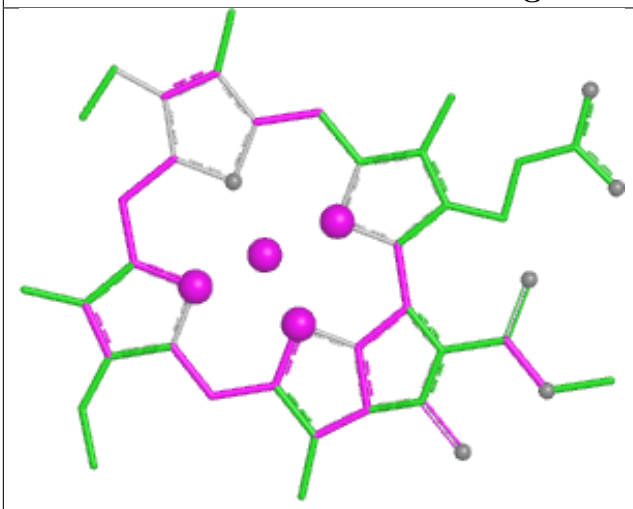
Mol	Chain	Res	Type	Atoms
14	A	802	CLA	CBA-CGA-O2A-C1
14	A	802	CLA	O1A-CGA-O2A-C1
14	A	804	CLA	C2-C1-O2A-CGA
14	A	804	CLA	CHA-CBD-CGD-O1D
14	A	804	CLA	CHA-CBD-CGD-O2D

There are no ring outliers.

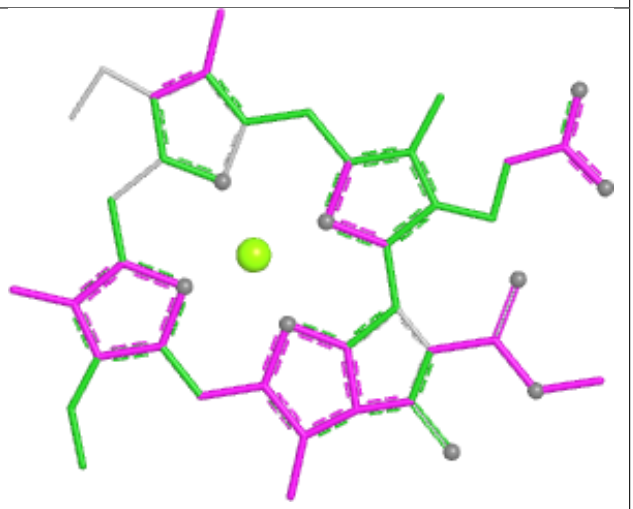
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

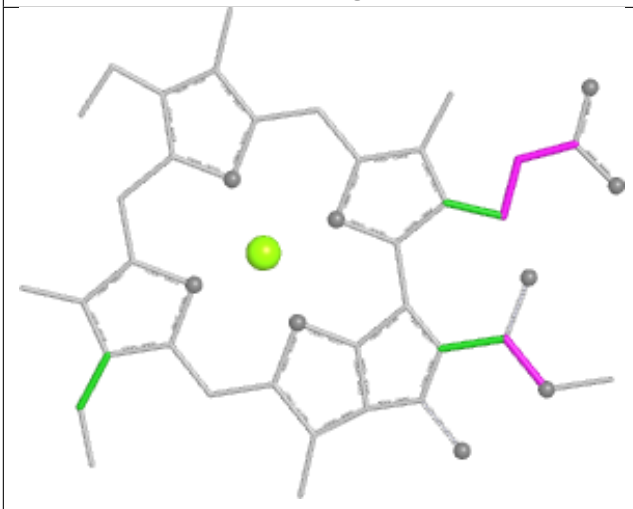
Ligand CLA A 836



Bond lengths



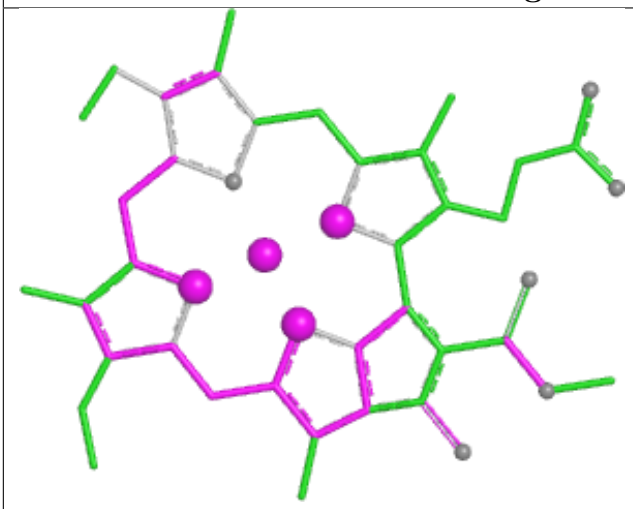
Bond angles



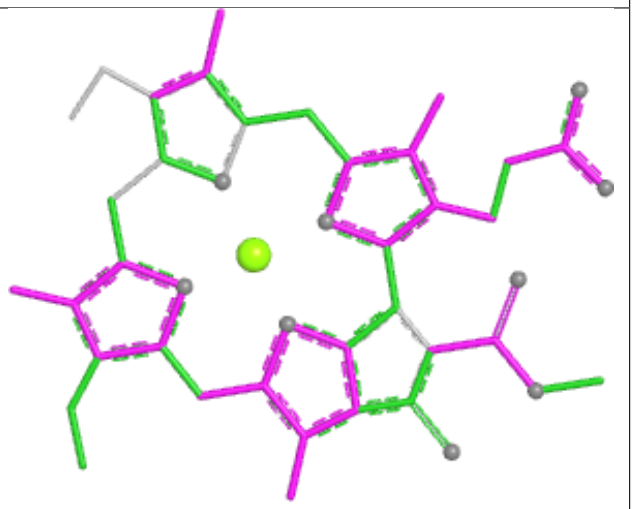
Torsions

Rings

Ligand CLA B 824



Bond lengths



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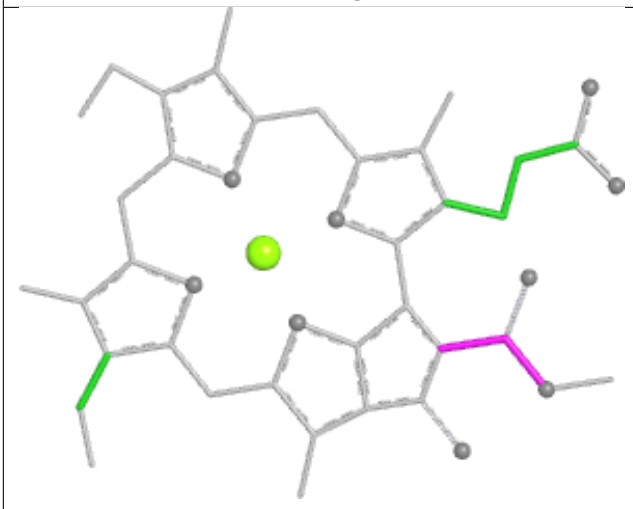
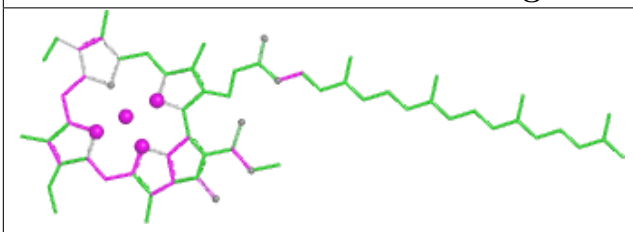


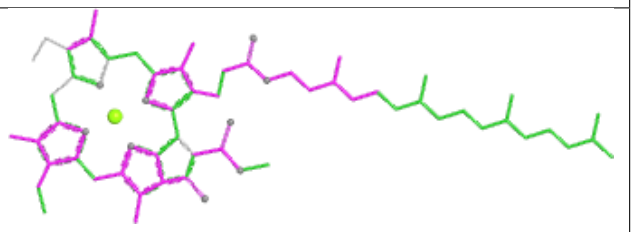
Torsions

Rings

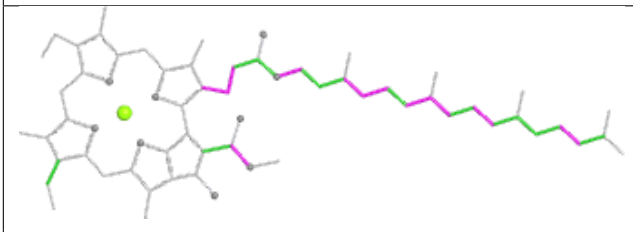
Ligand CLA G 803



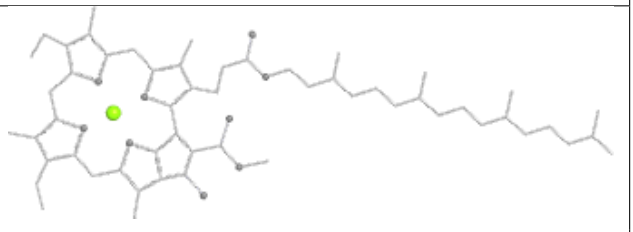
Bond lengths



Bond angles

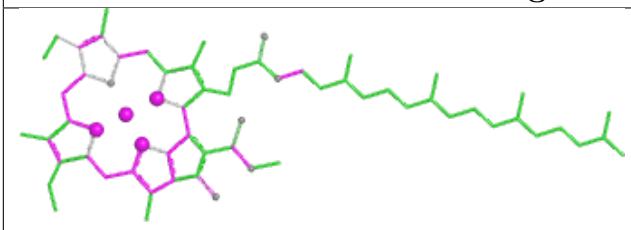


Torsions

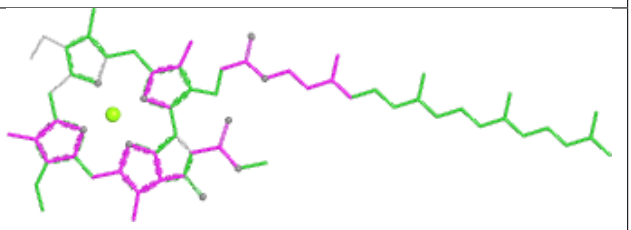


Rings

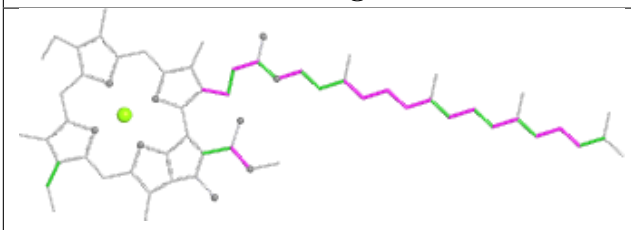
Ligand CLA a 842



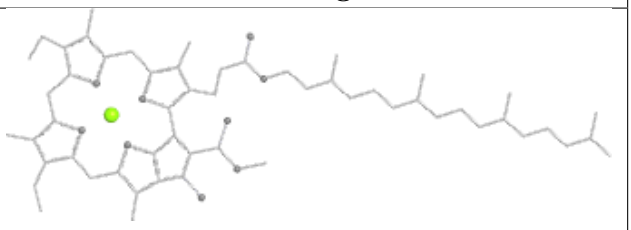
Bond lengths



Bond angles

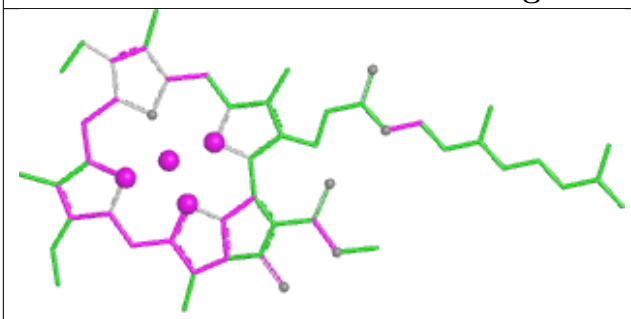


Torsions

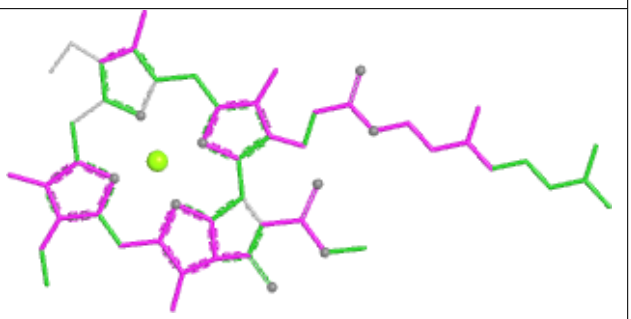


Rings

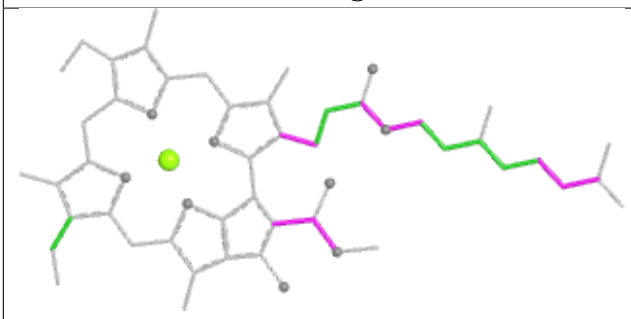
Ligand CLA G 804



Bond lengths



Bond angles



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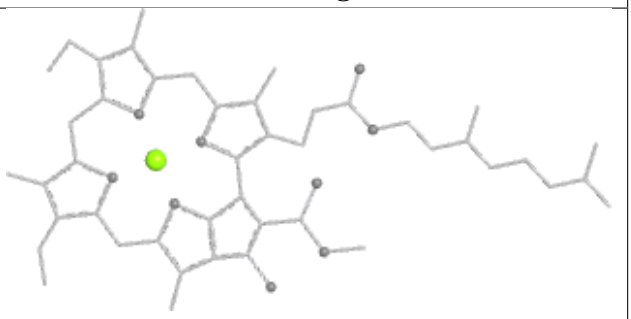
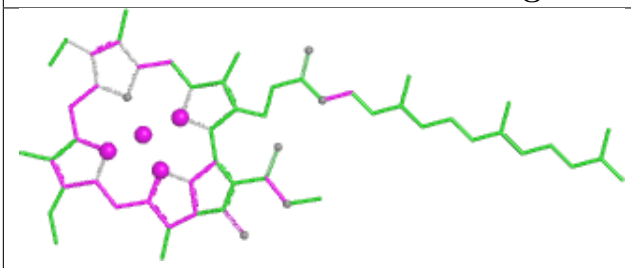
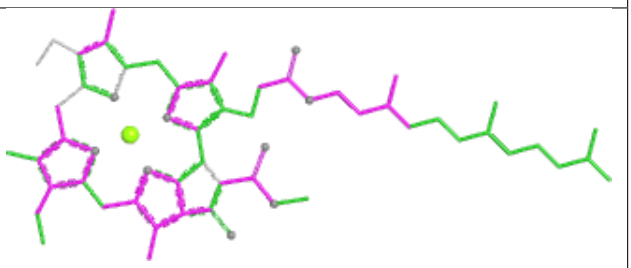
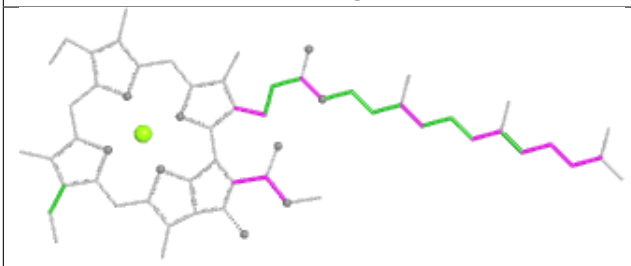
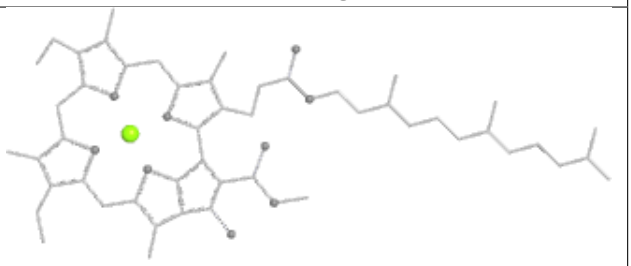


Rings

Ligand CLA H 836	
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

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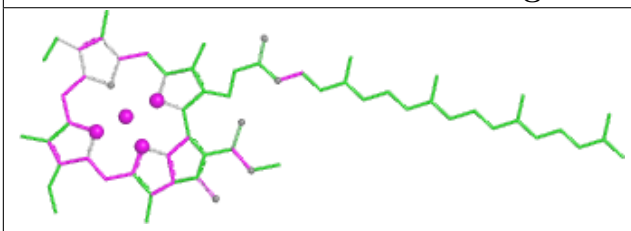
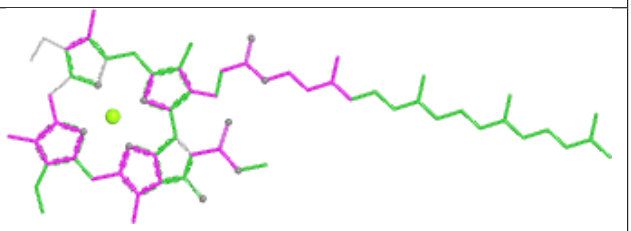
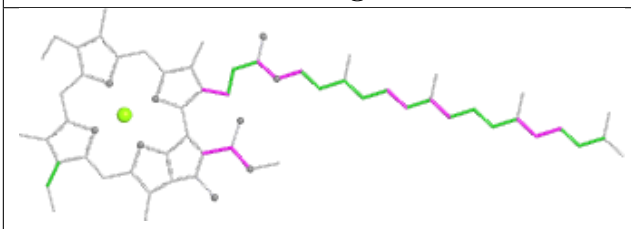
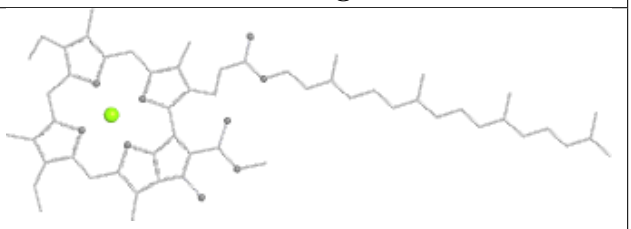
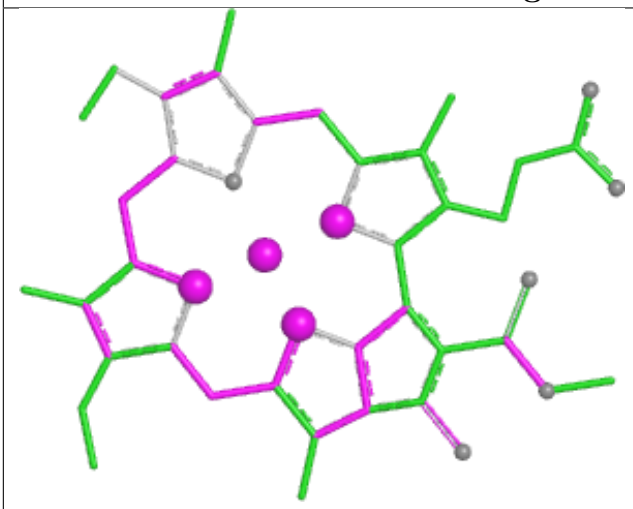
	
Bond lengths	**Bond angles**
	
Torsions	**Rings**

Ligand CLA Q 201



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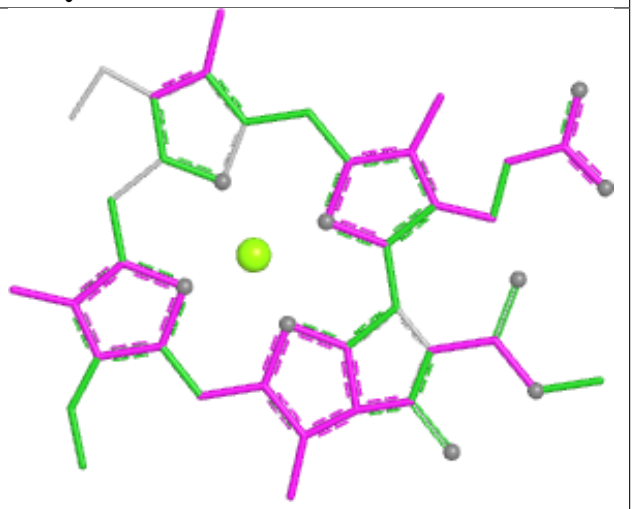

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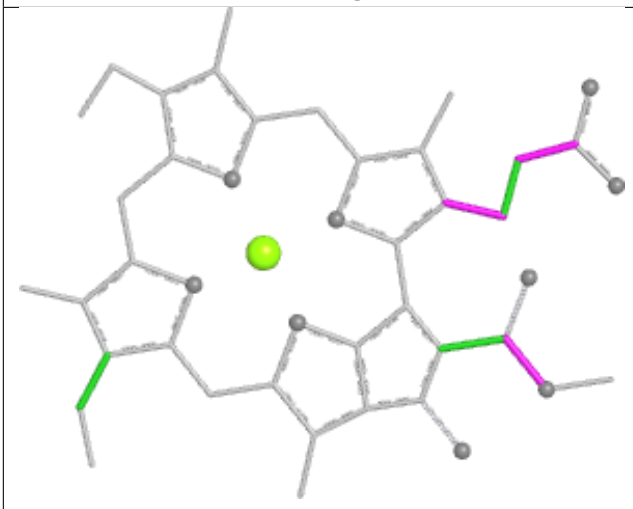
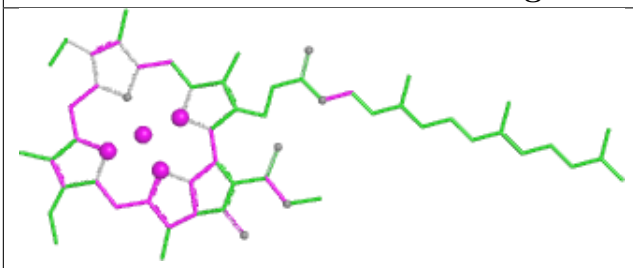


Torsions

Rings

Ligand CLA B 817



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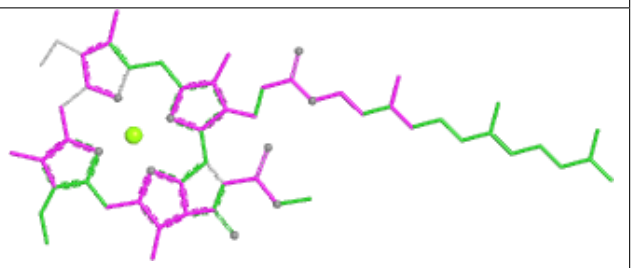
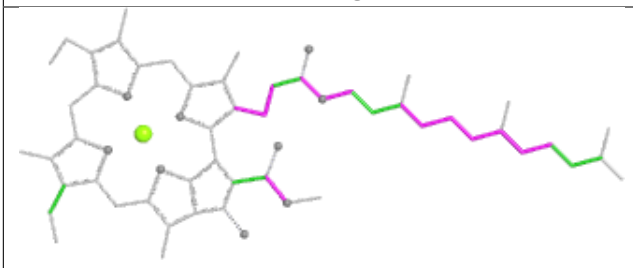


Bond angles



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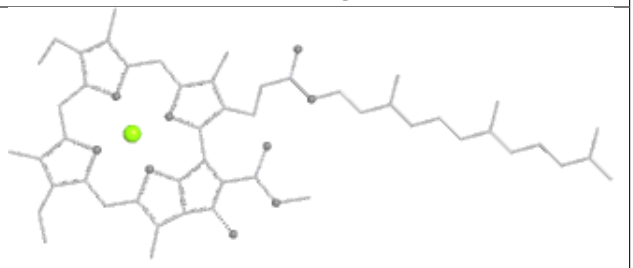
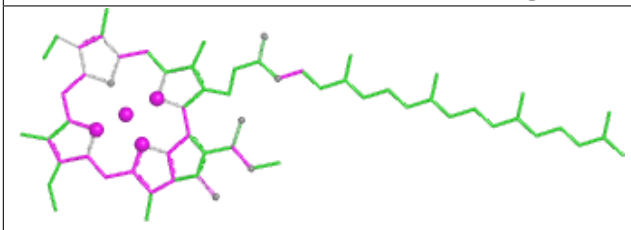


Rings

Ligand CLA U 201



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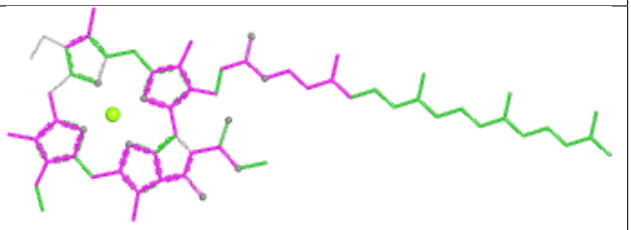

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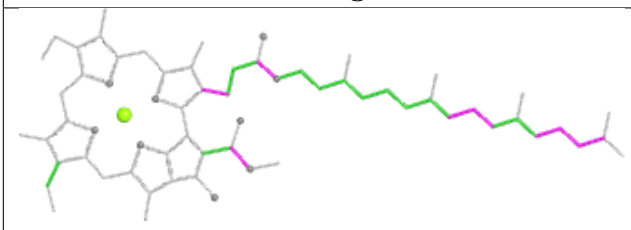
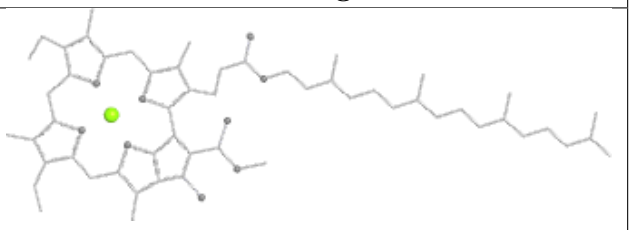
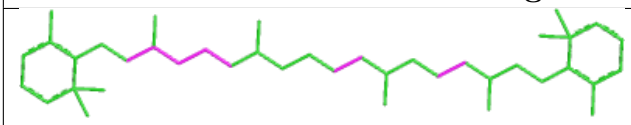


Torsions



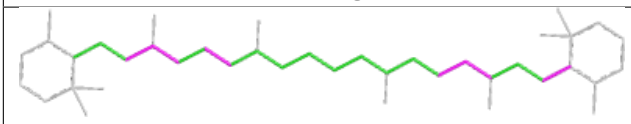
Rings

Ligand BCR L 202



Bond lengths

Bond angles



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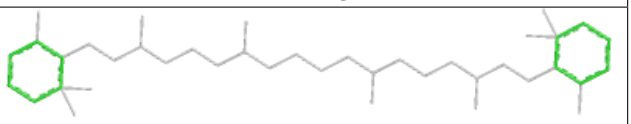
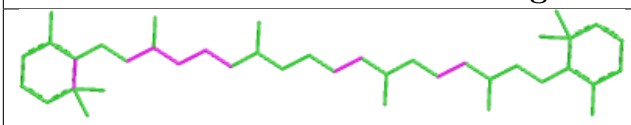
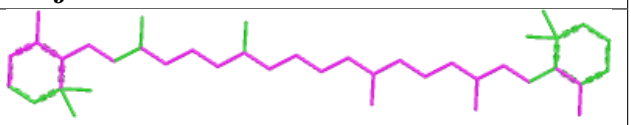


Rings

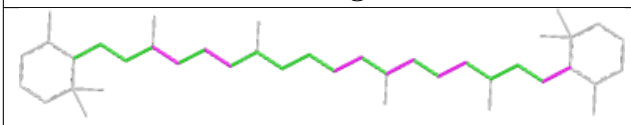
Ligand BCR j 104



Bond lengths



Bond angles



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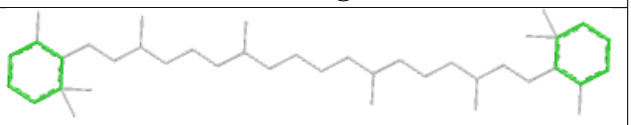
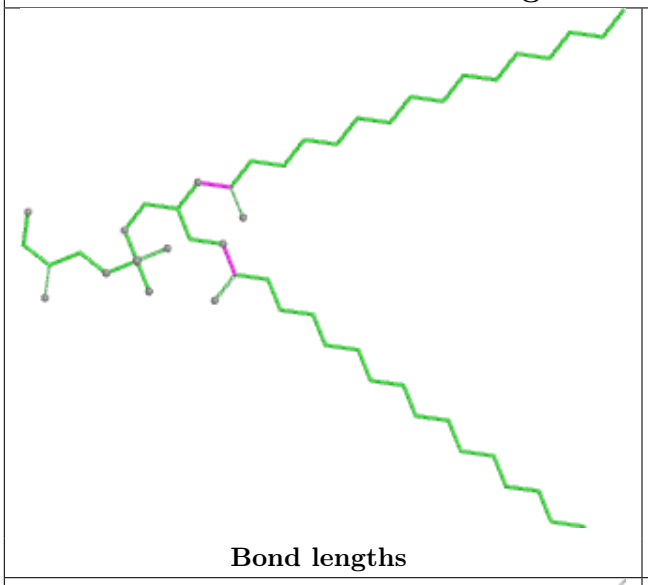
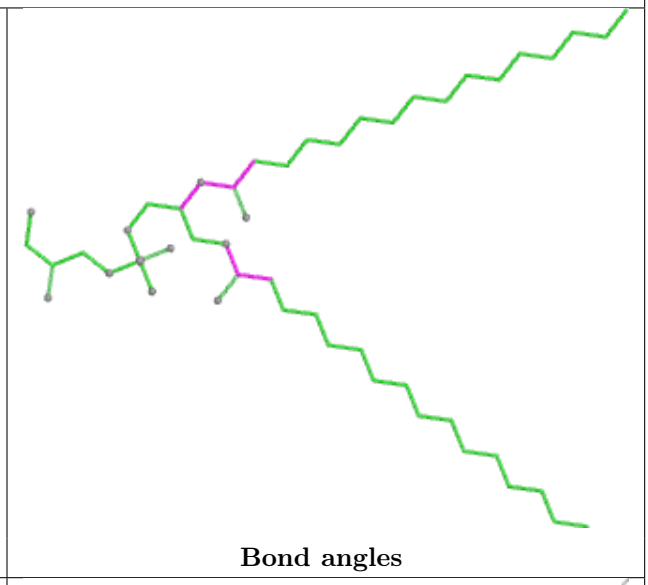


Rings

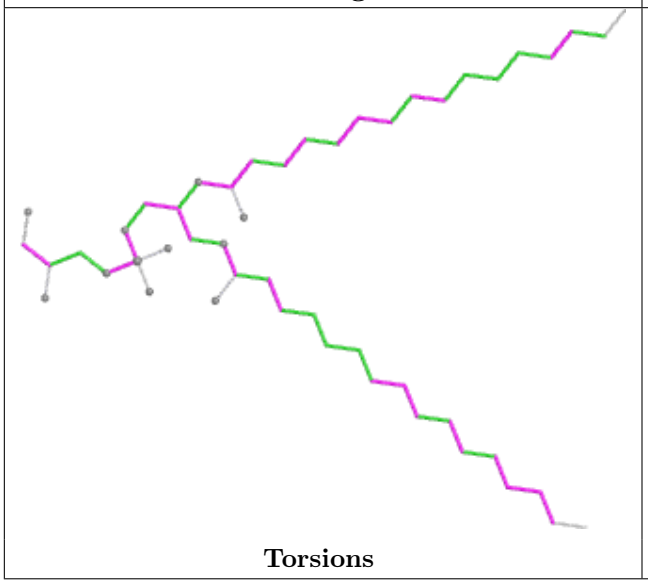
Ligand LHG G 854



Bond lengths



Bond angles



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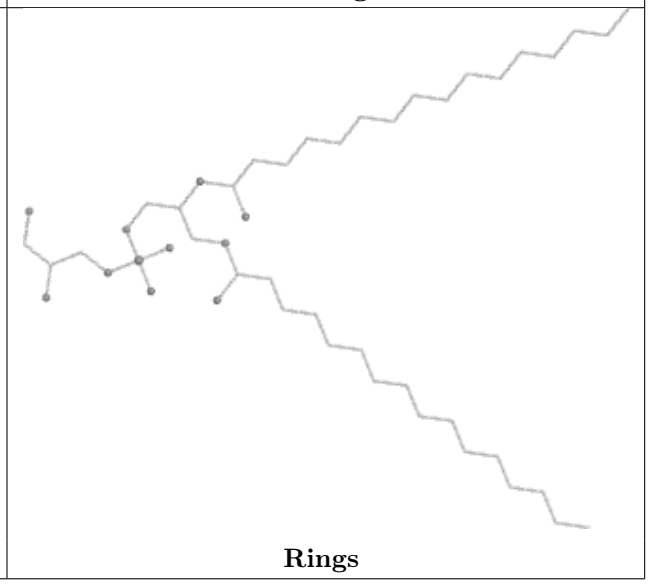
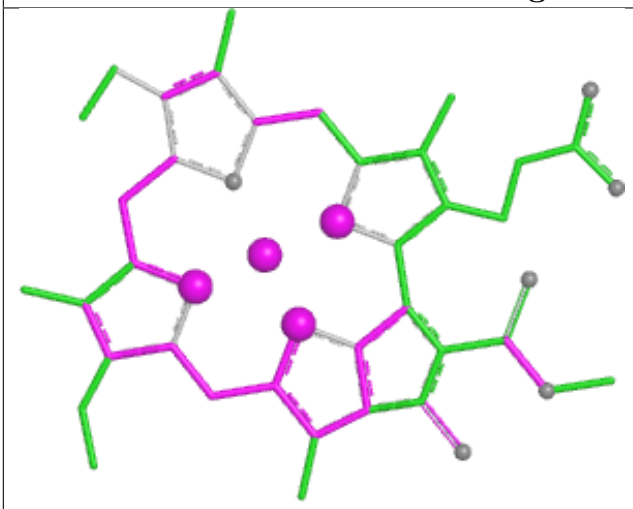
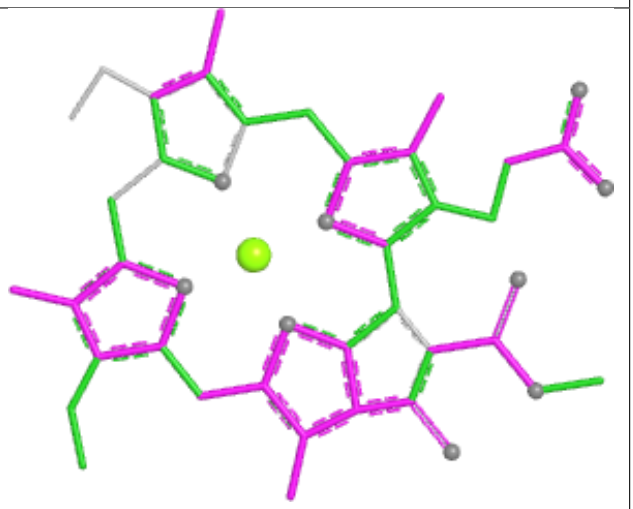


Rings

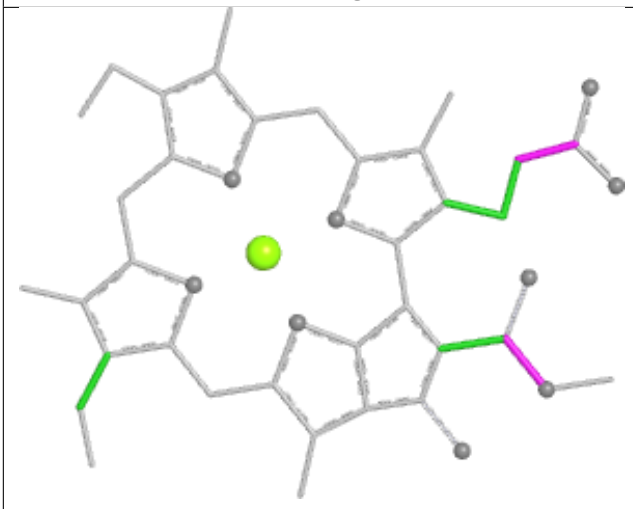
Ligand CLA a 823



Bond lengths



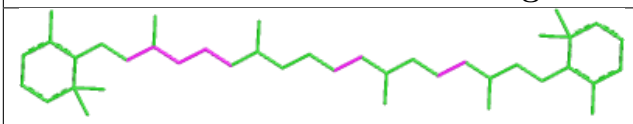
Bond angles



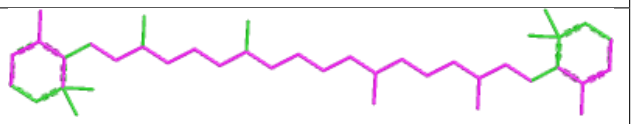
Torsions

Rings

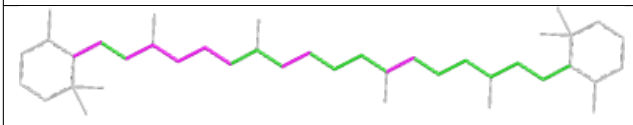
Ligand BCR A 850



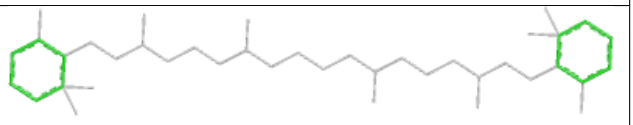
Bond lengths



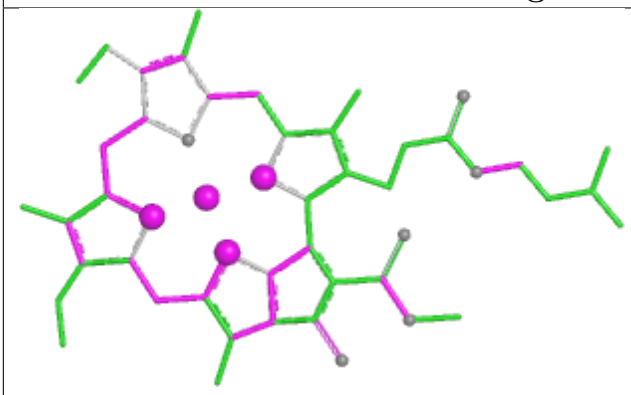
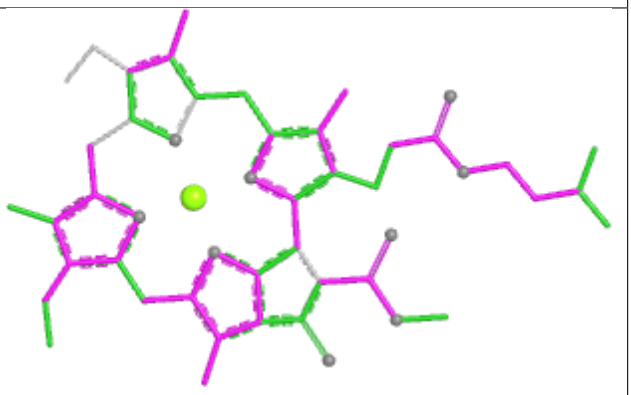
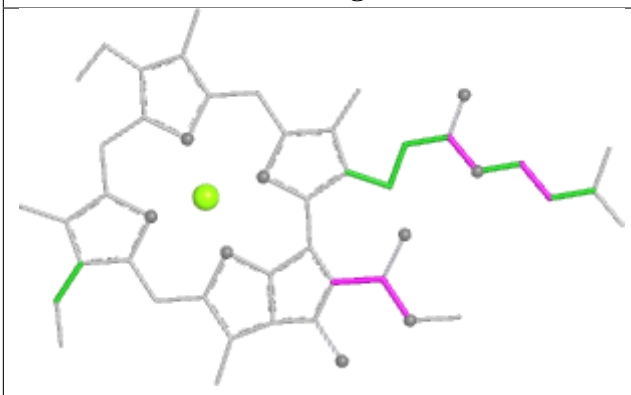
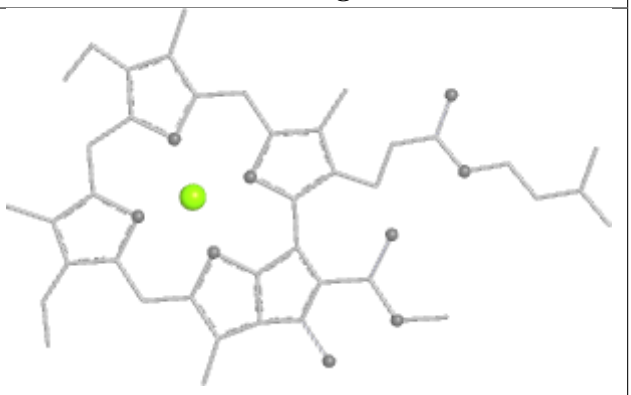
Bond angles

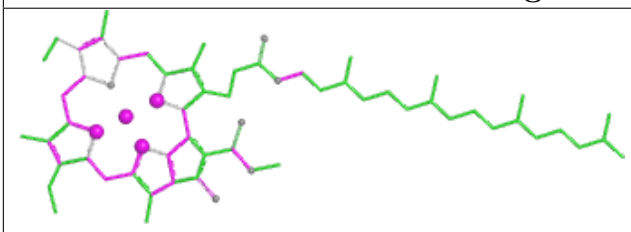
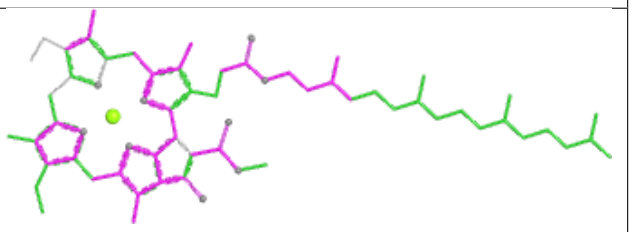
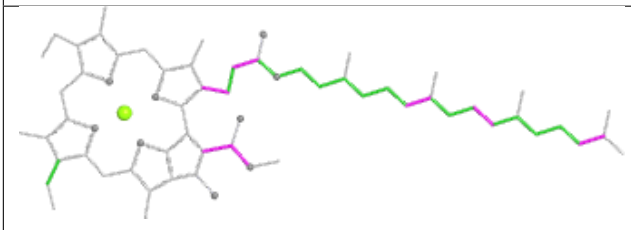
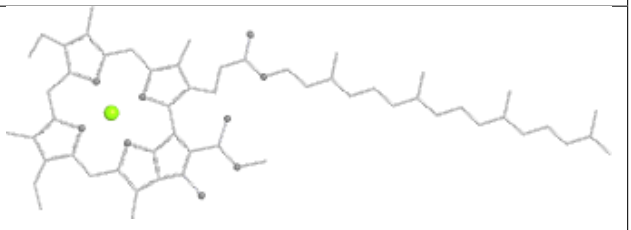


Torsions

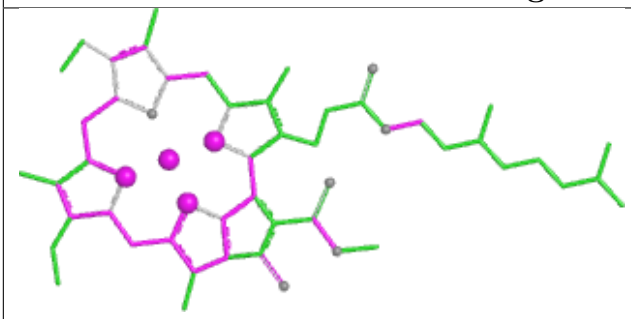


Rings

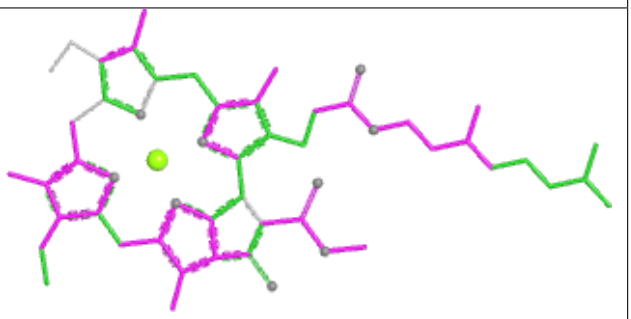
Ligand CLA b 823	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA B 825	
	
Bond lengths	Bond angles
	
Torsions	Rings

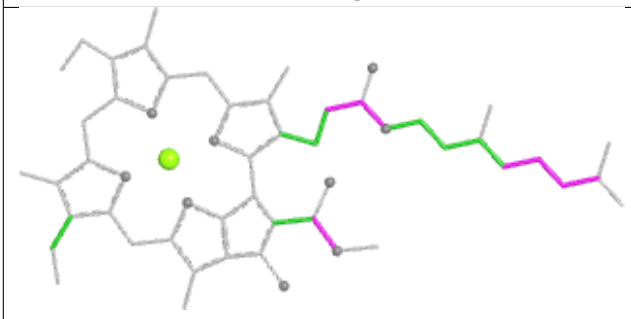
Ligand CLA b 821



Bond lengths



Bond angles



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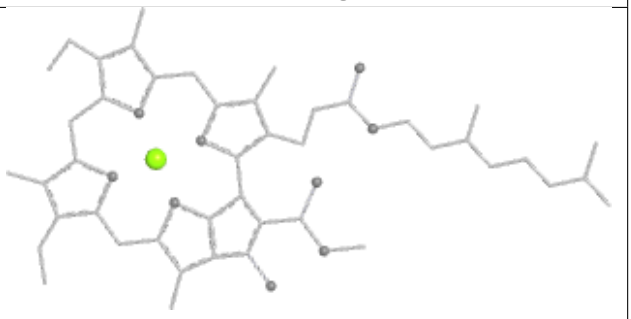
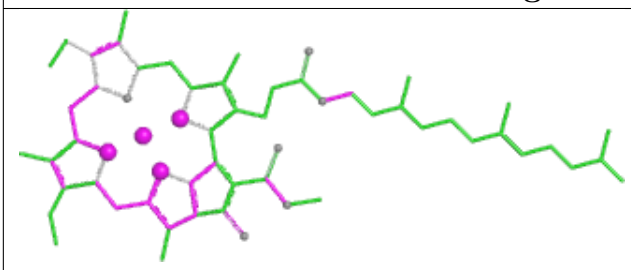
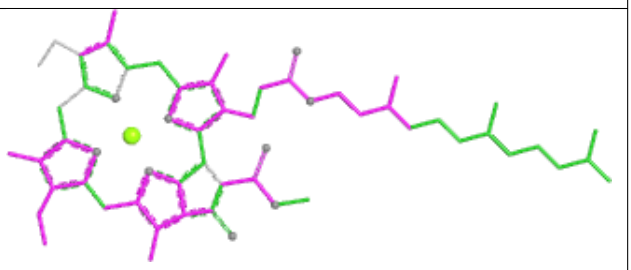


Rings

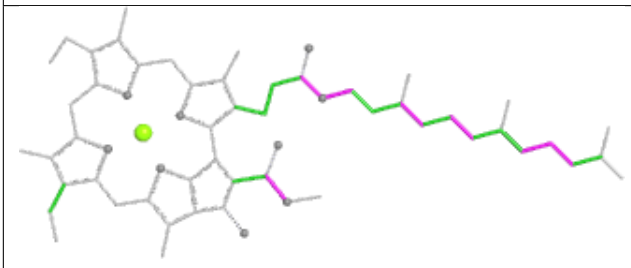
Ligand CLA A 827



Bond lengths



Bond angles



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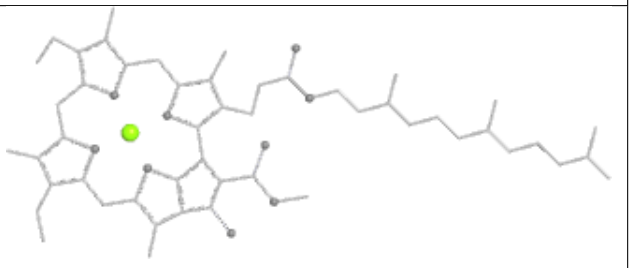
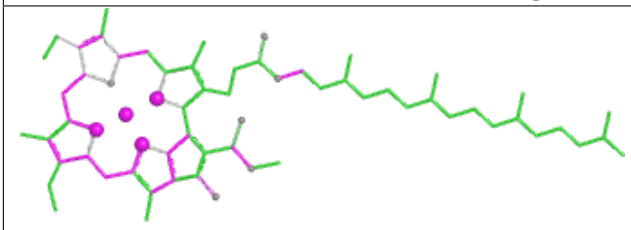


Rings

Ligand CLA b 828



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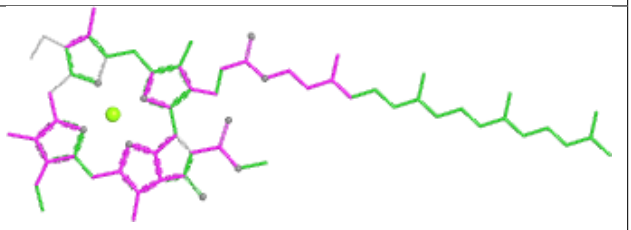
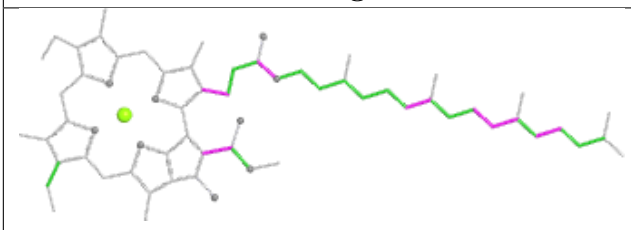
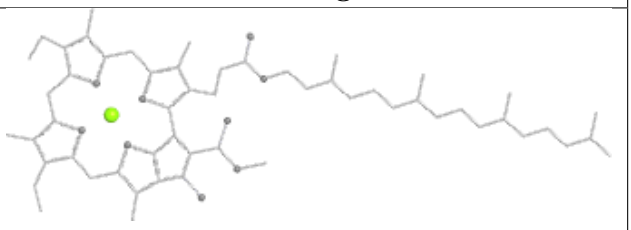


Bond angles

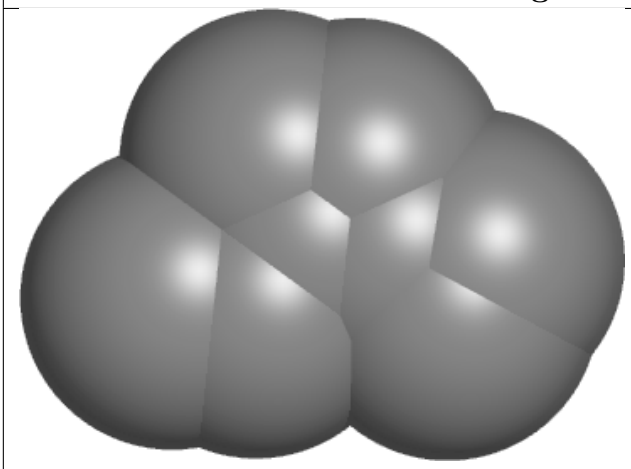


Torsions

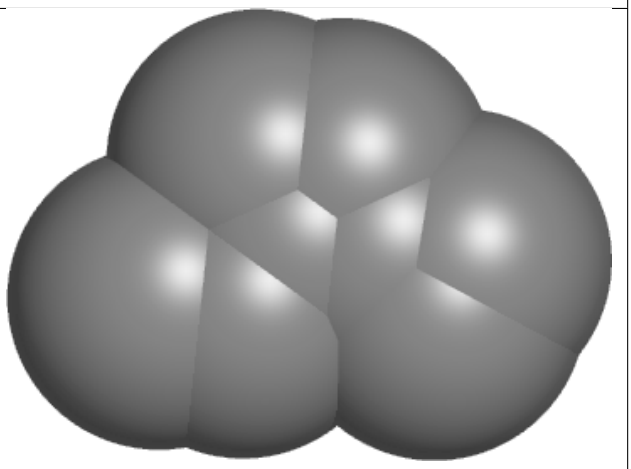


Rings

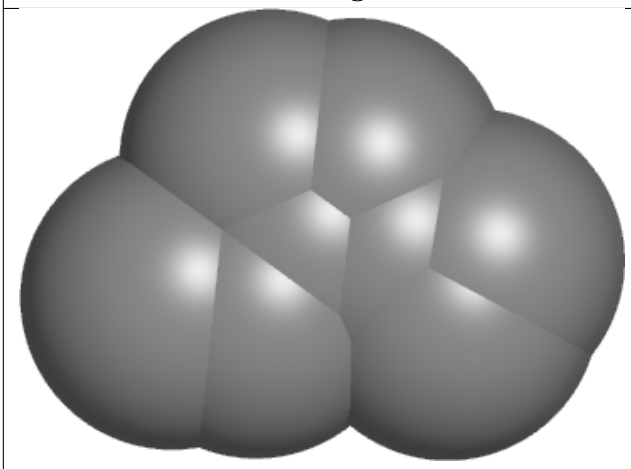
Ligand SF4 C 102



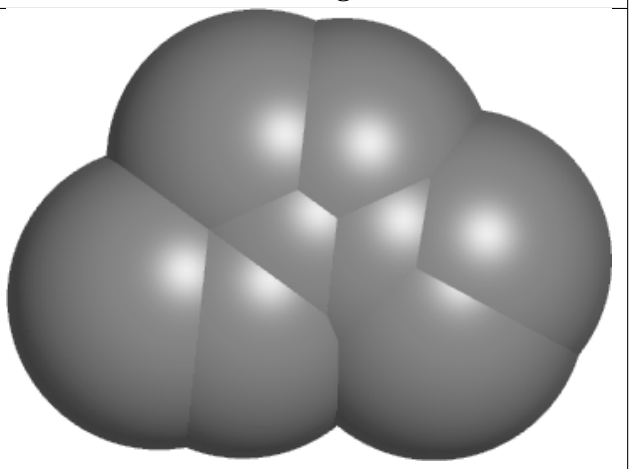
Bond lengths



Bond angles

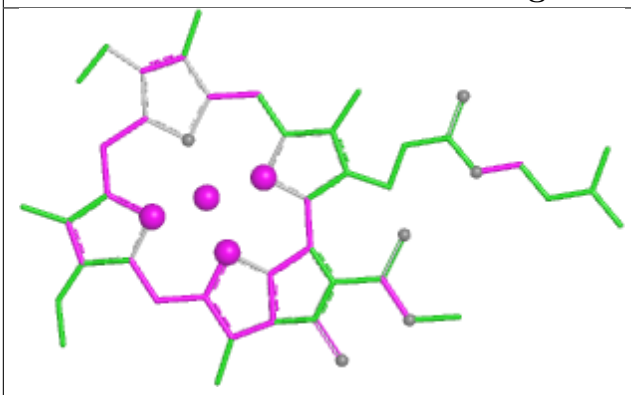


Torsions



Rings

Ligand CLA a 820



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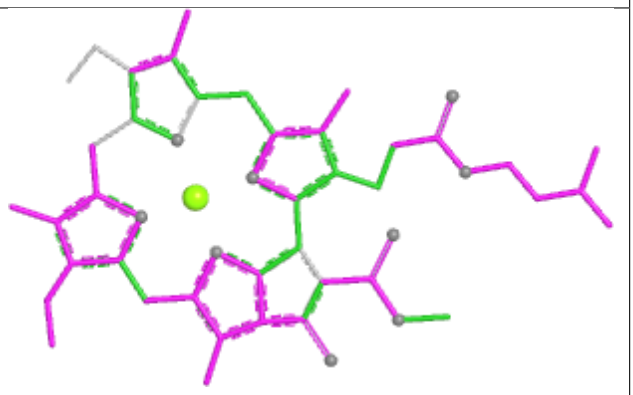
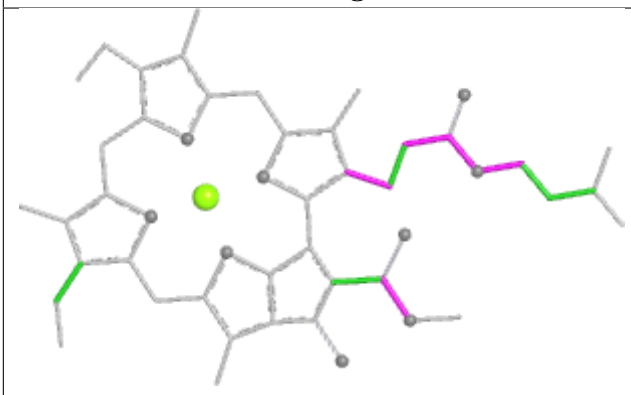


Bond angles



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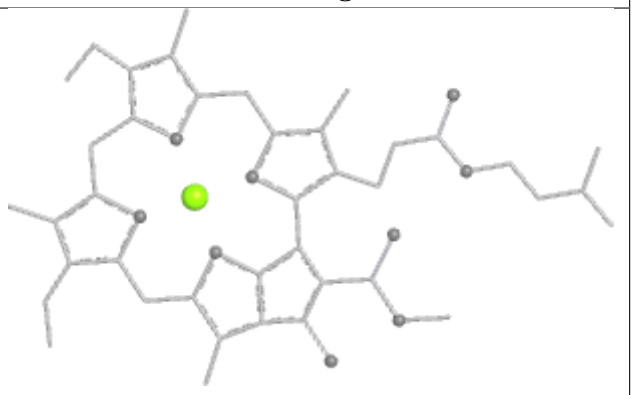
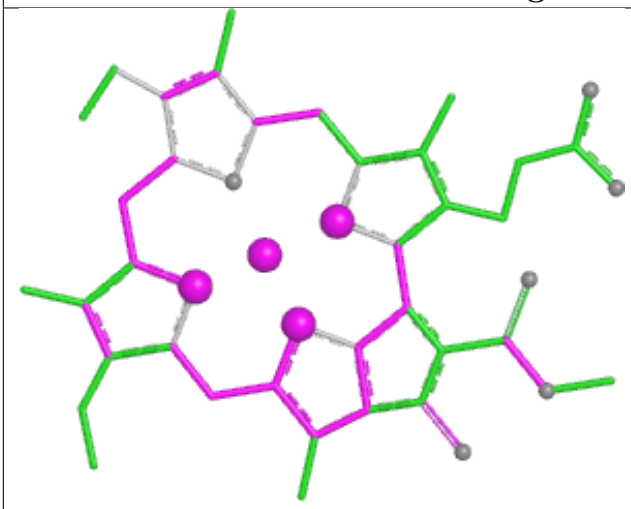
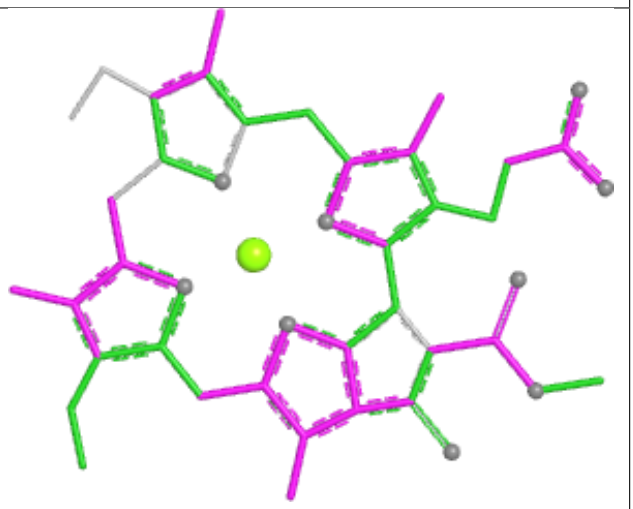


Rings

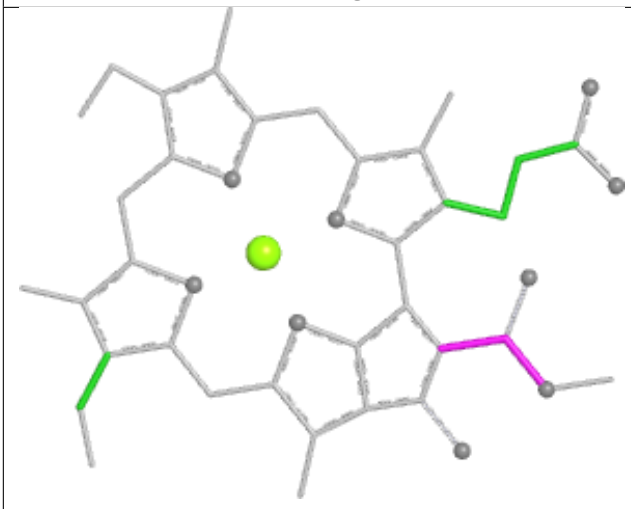
Ligand CLA b 820



Bond lengths



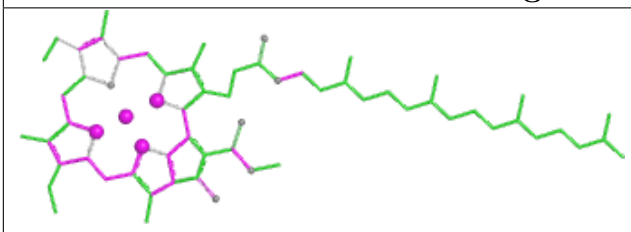
Bond angles



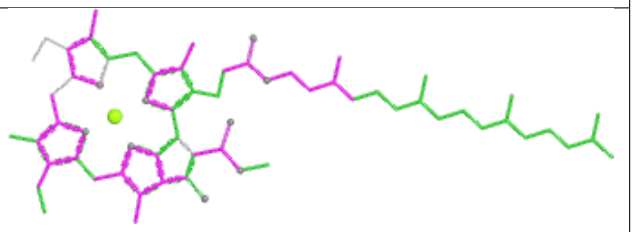
Torsions

Rings

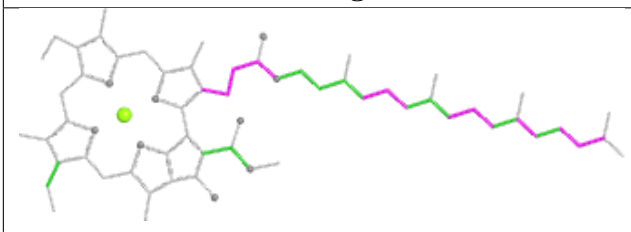
Ligand CLA A 830



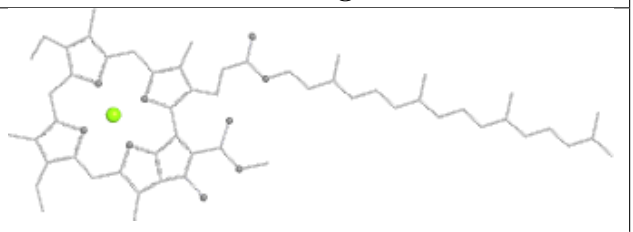
Bond lengths



Bond angles

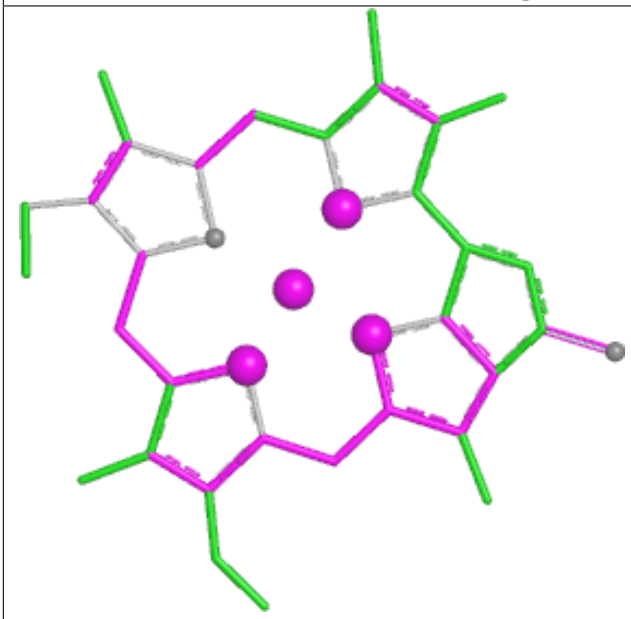


Torsions

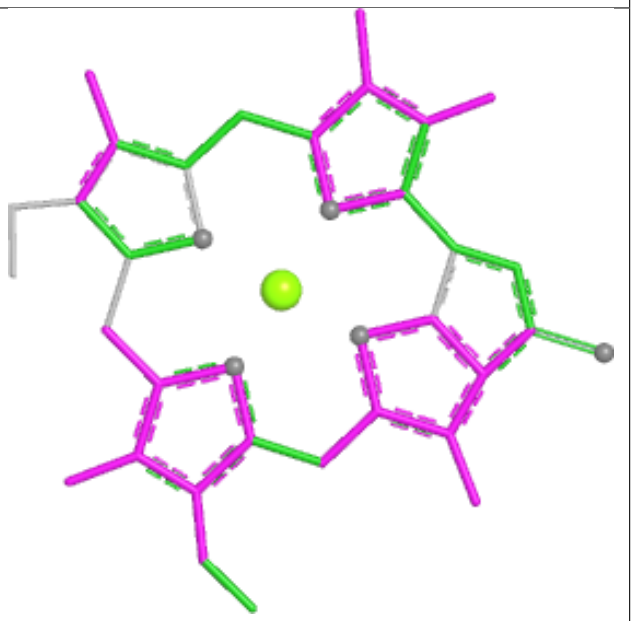


Rings

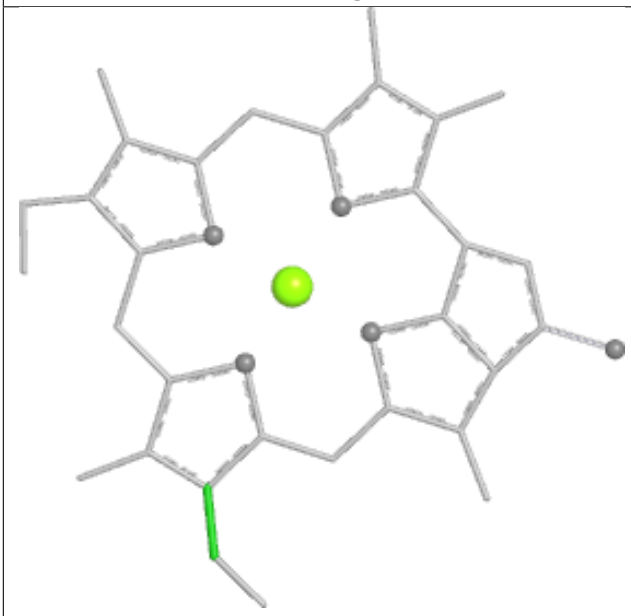
Ligand CLA F 1303



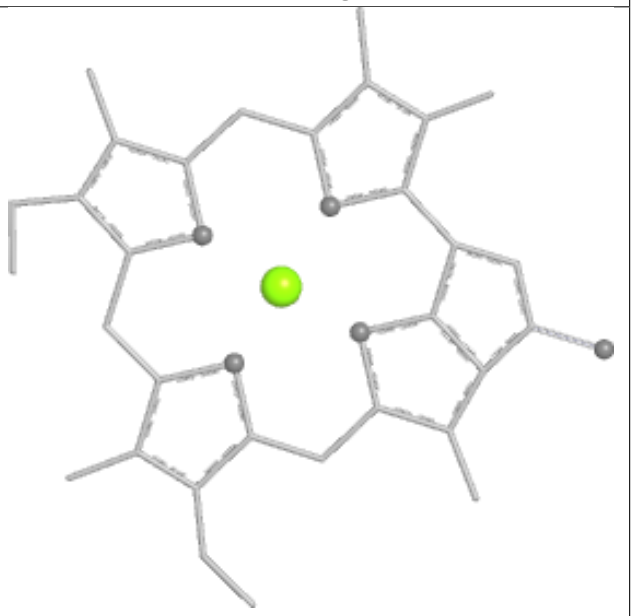
Bond lengths



Bond angles

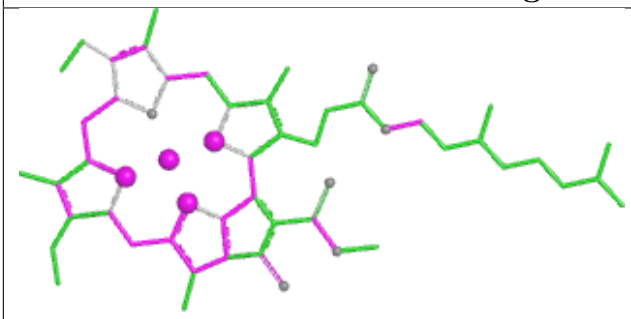


Torsions



Rings

Ligand CLA G 833



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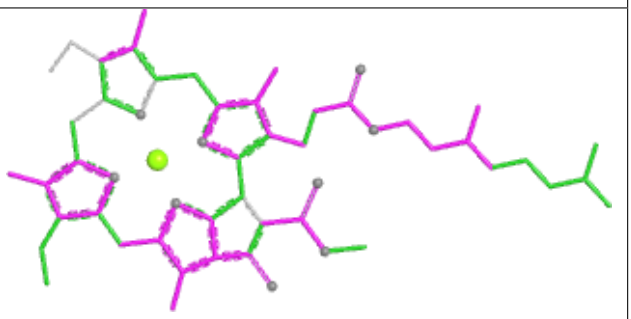
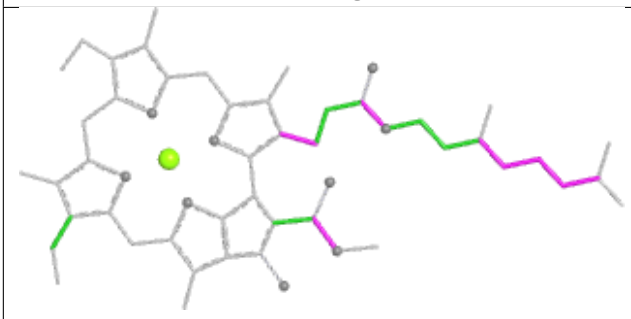
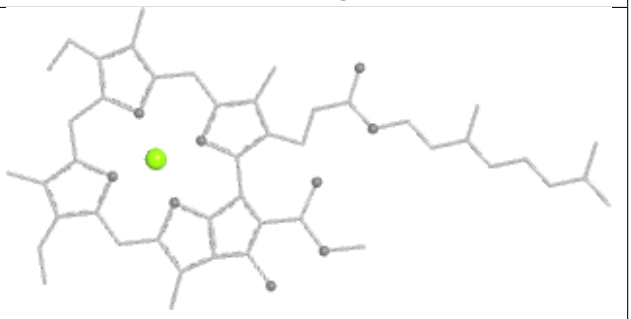


Bond angles

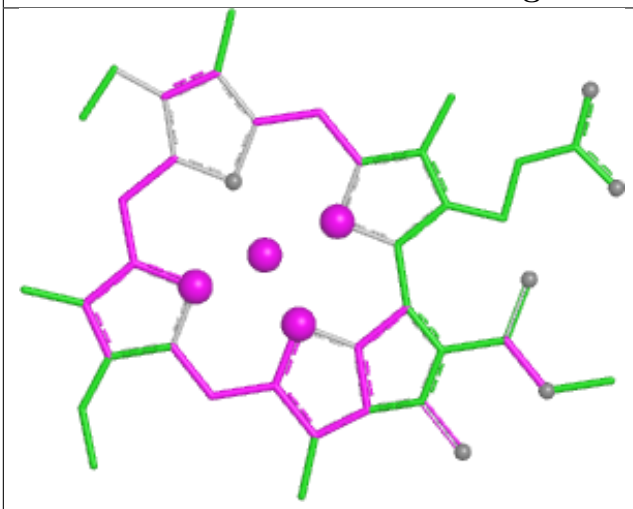


Torsions

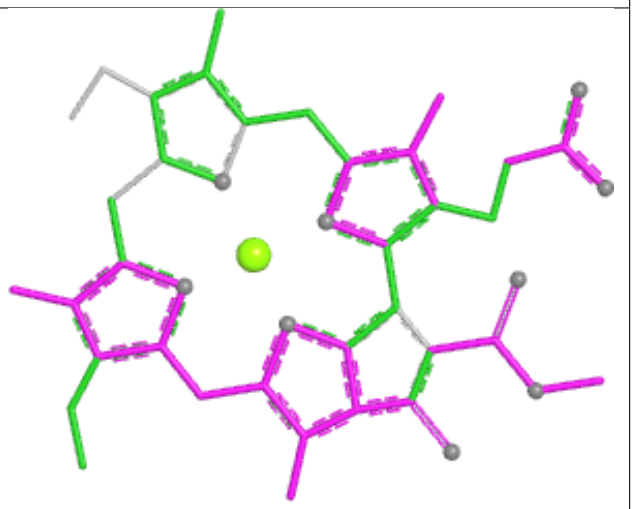


Rings

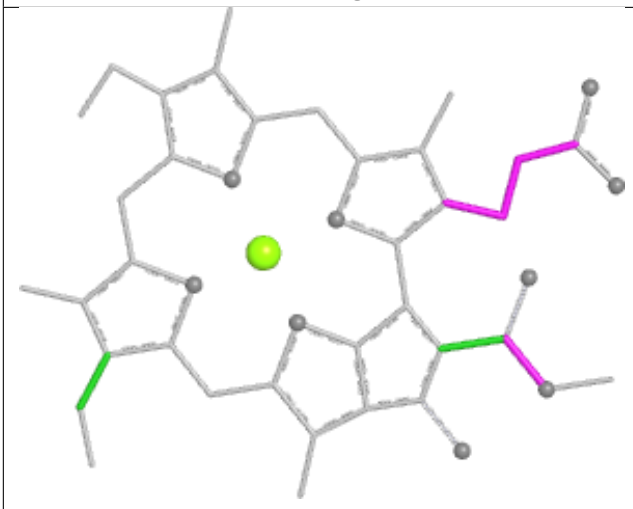
Ligand CLA G 811



Bond lengths



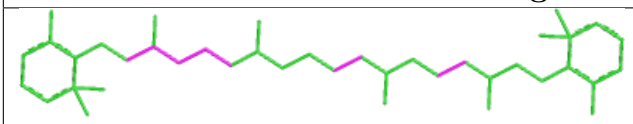
Bond angles



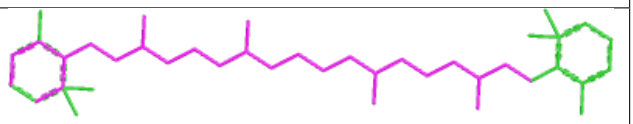
Torsions

Rings

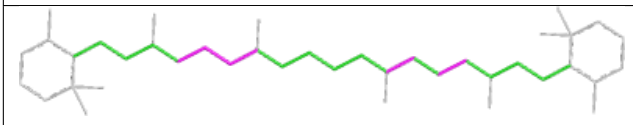
Ligand BCR f 201



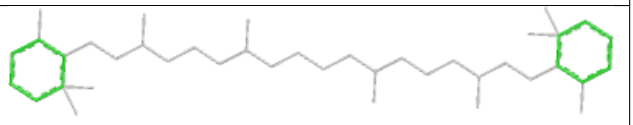
Bond lengths



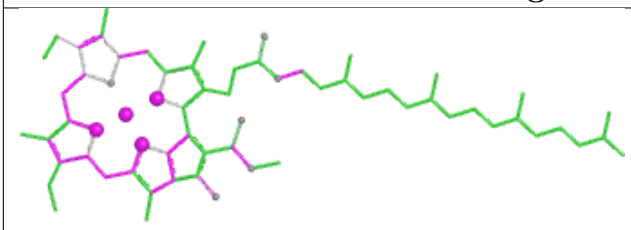
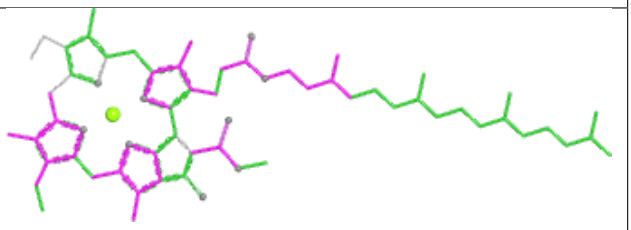
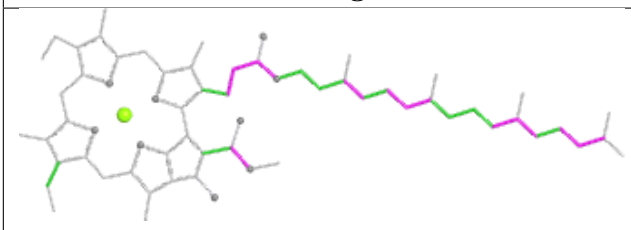
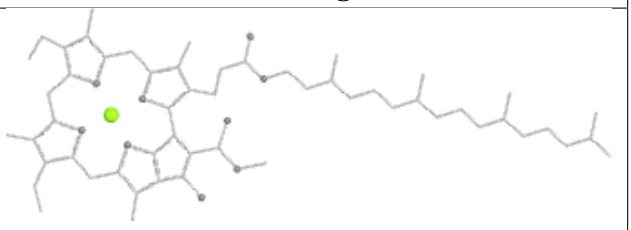
Bond angles

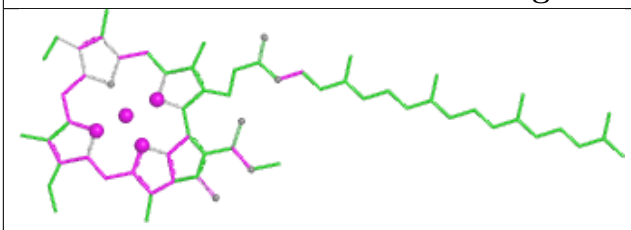
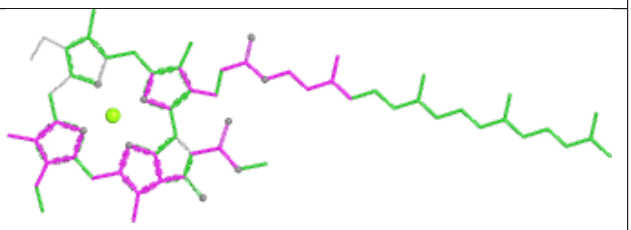
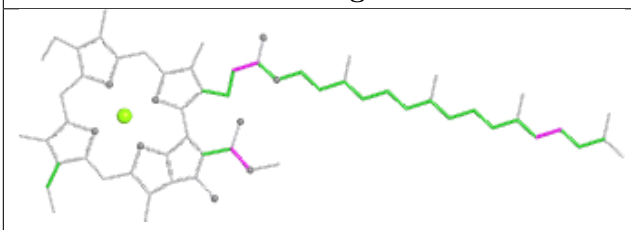
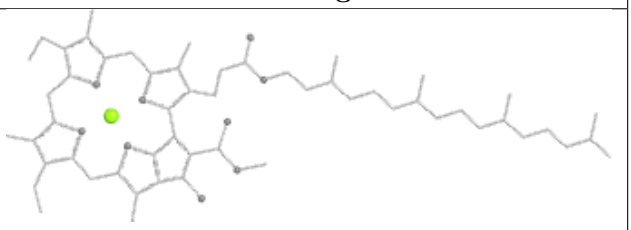


Torsions

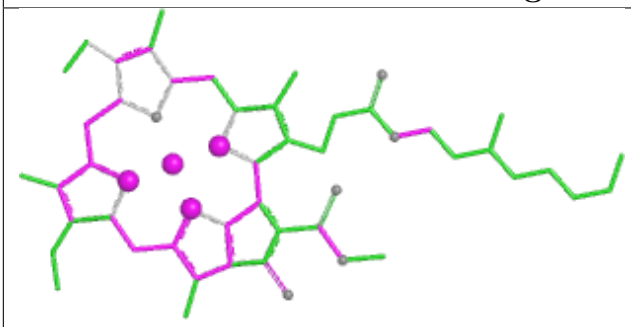


Rings

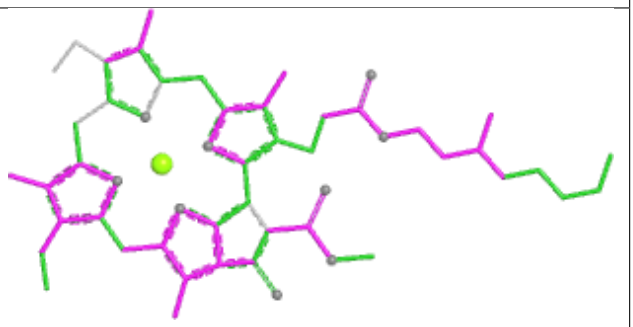
Ligand CLA b 802	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA i 101	
	
Bond lengths	Bond angles
	
Torsions	Rings

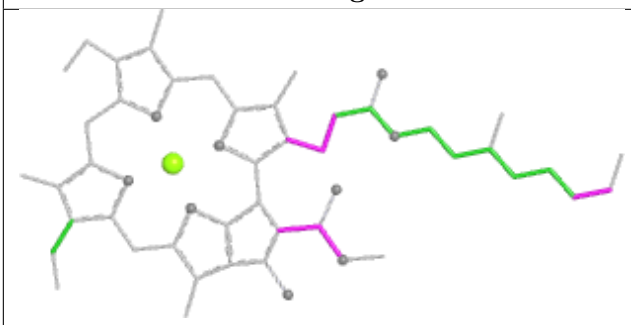
Ligand CLA B 804



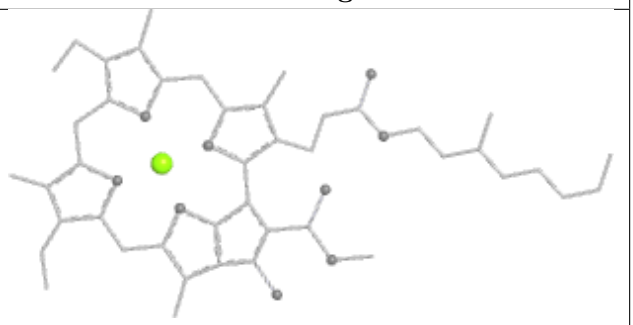
Bond lengths



Bond angles

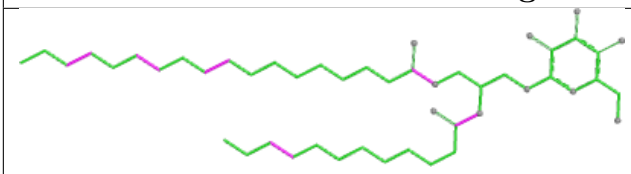


Torsions

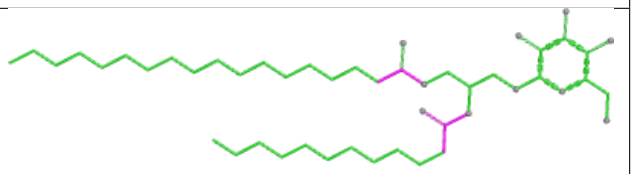


Rings

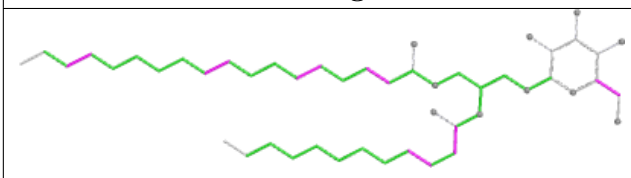
Ligand LMG H 848



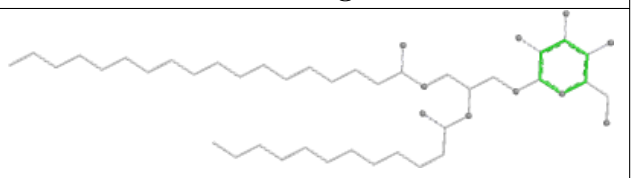
Bond lengths



Bond angles

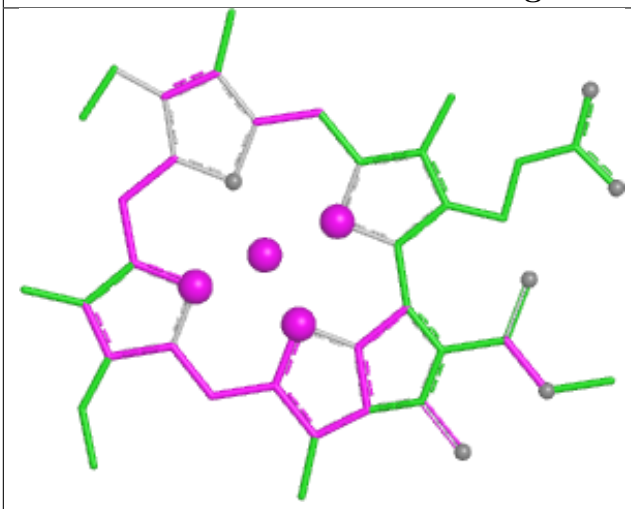


Torsions

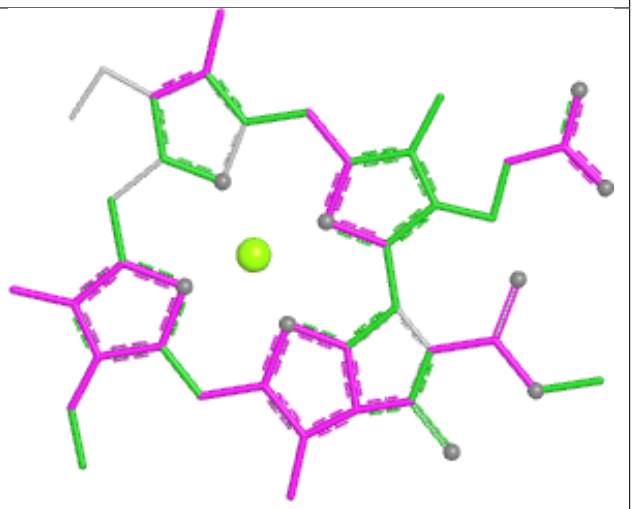


Rings

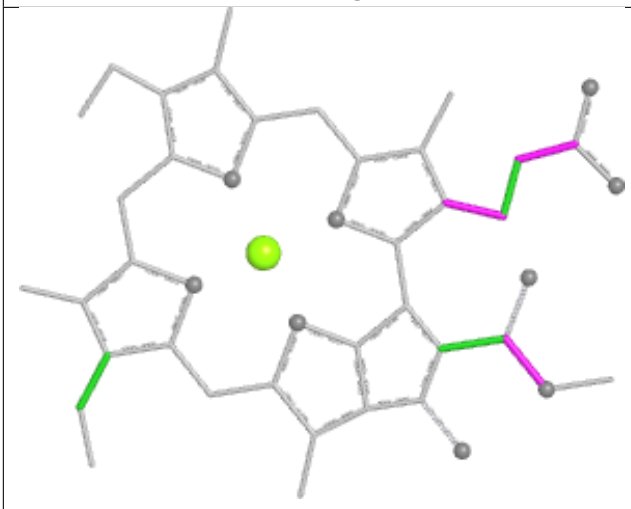
Ligand CLA B 833



Bond lengths



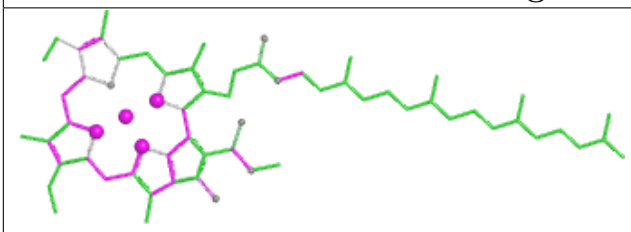
Bond angles



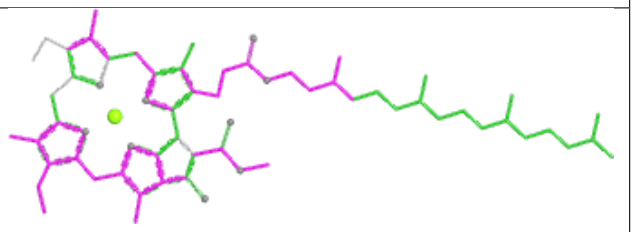
Torsions

Rings

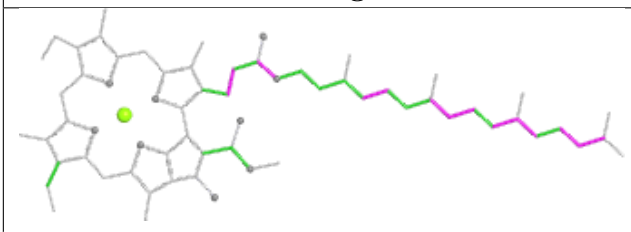
Ligand CLA b 801



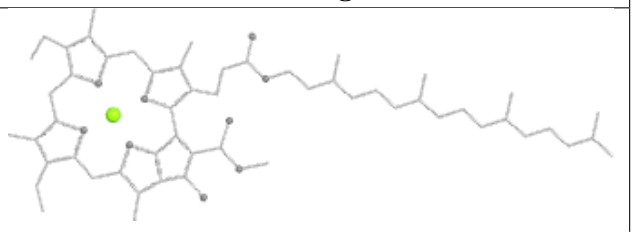
Bond lengths



Bond angles

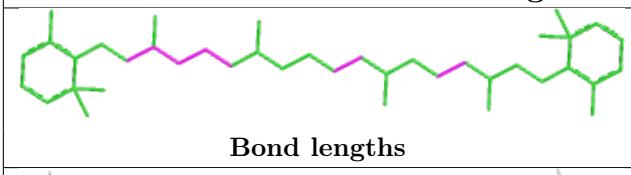


Torsions

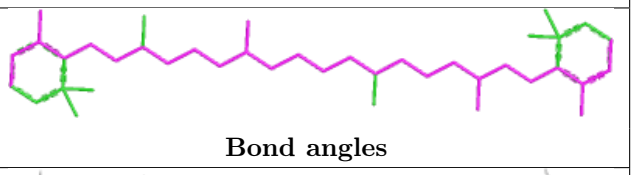


Rings

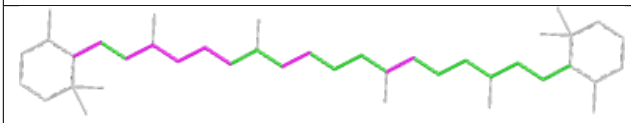
Ligand BCR a 849



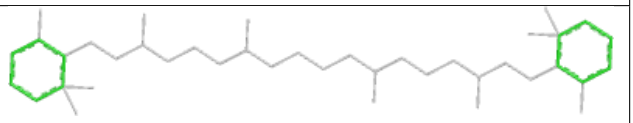
Bond lengths



Bond angles

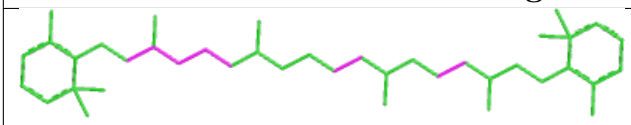


Torsions



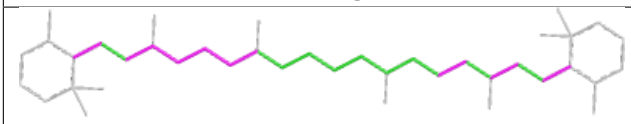
Rings

Ligand BCR S 103



Bond lengths

Bond angles



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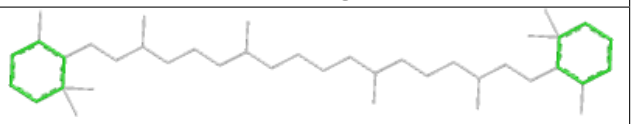
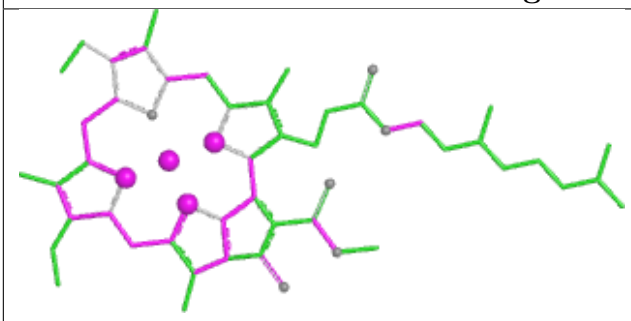
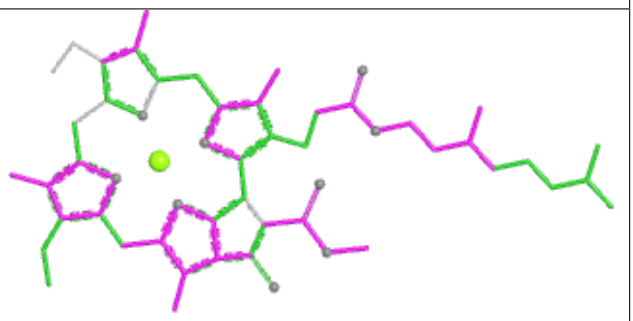


Rings

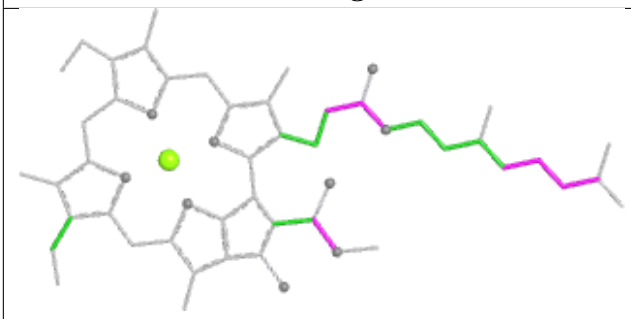
Ligand CLA H 821



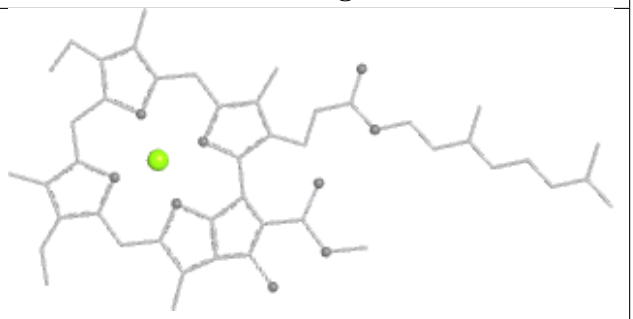
Bond lengths



Bond angles

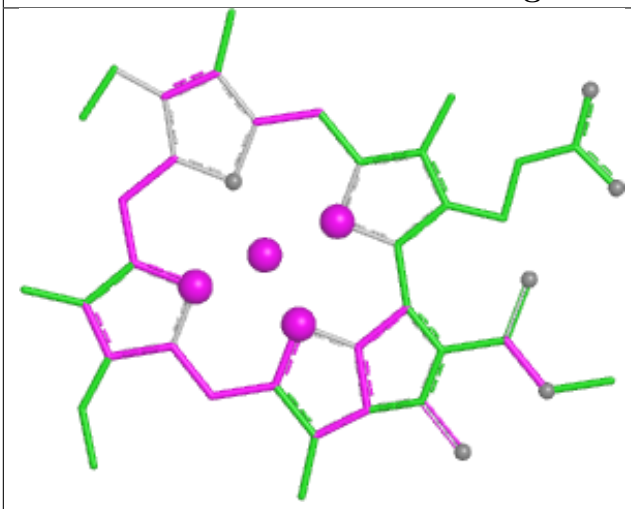


Torsions

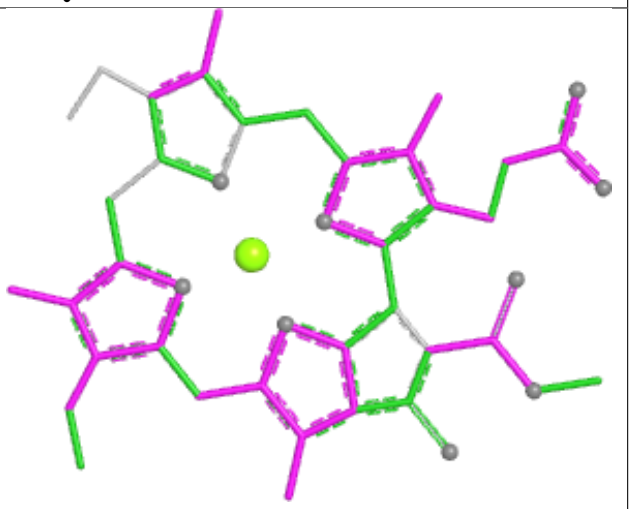


Rings

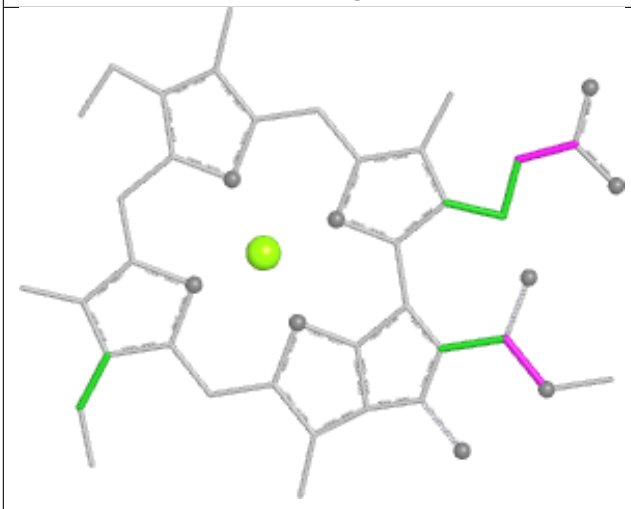
Ligand CLA Q 203



Bond lengths



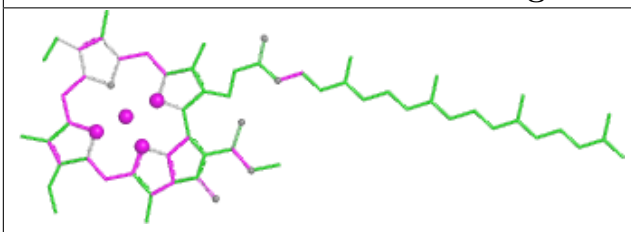
Bond angles



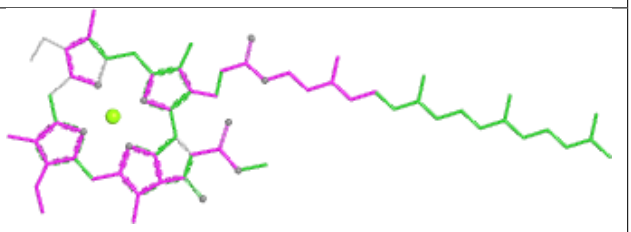
Torsions

Rings

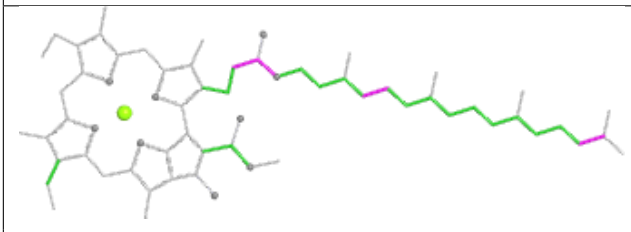
Ligand CL0 G 801



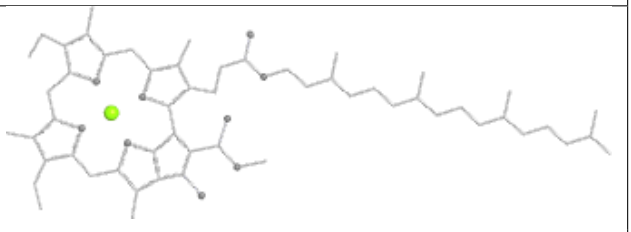
Bond lengths



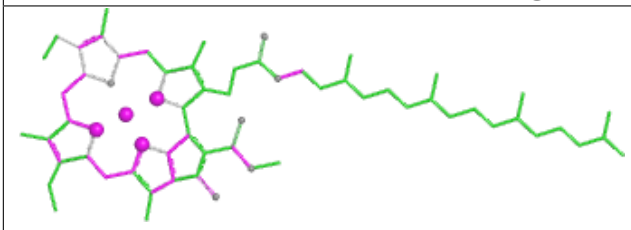
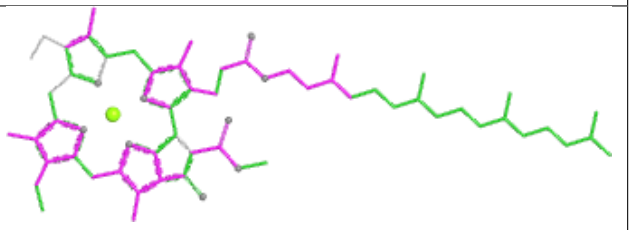
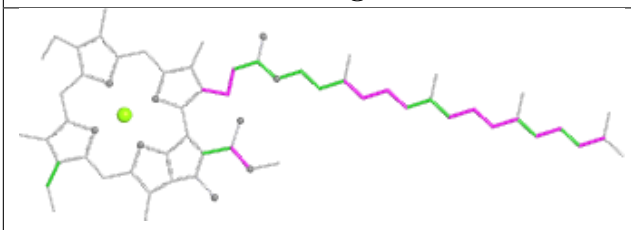
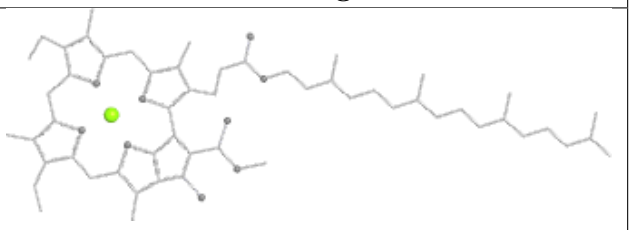
Bond angles

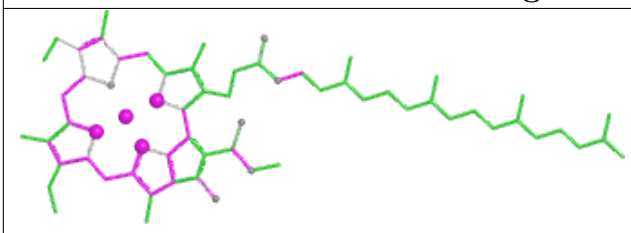
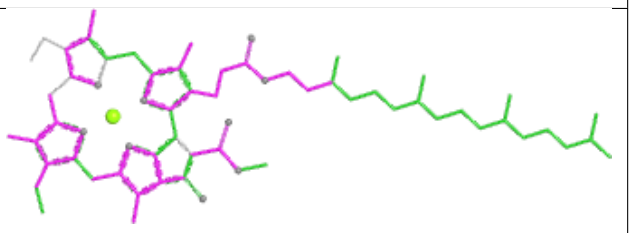
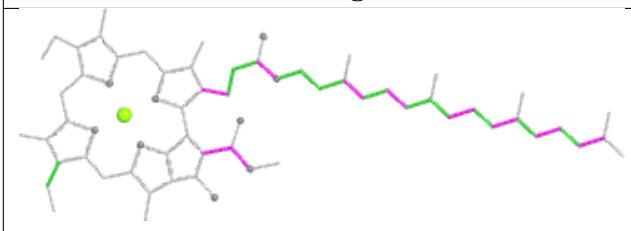
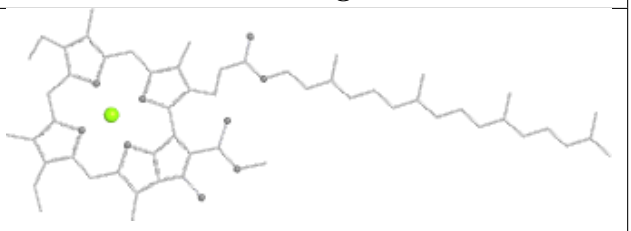


Torsions

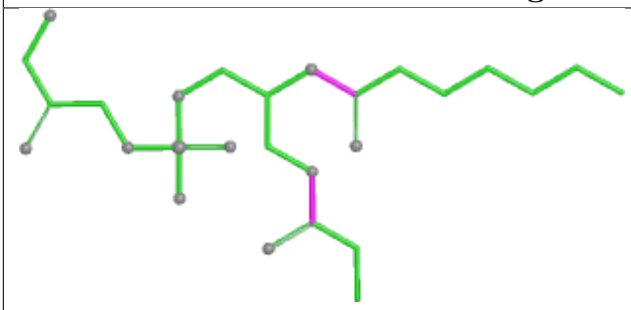


Rings

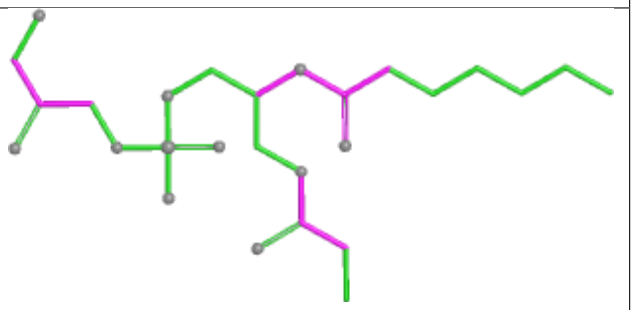
Ligand CLA a 809	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA G 820	
	
Bond lengths	Bond angles
	
Torsions	Rings

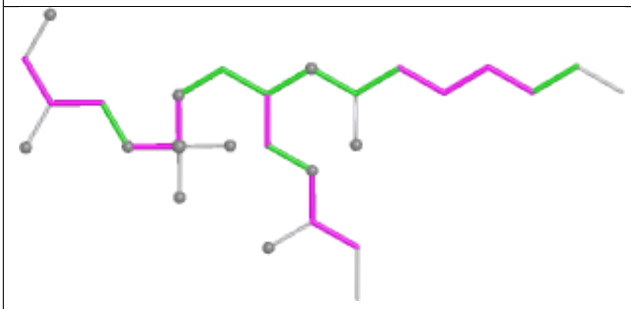
Ligand LHG a 854



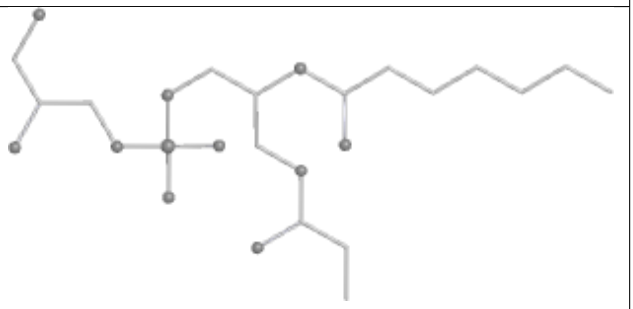
Bond lengths



Bond angles

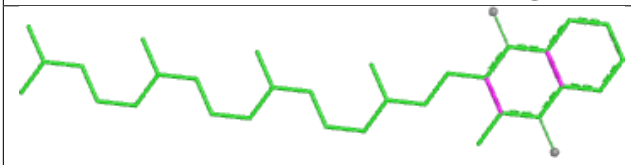


Torsions

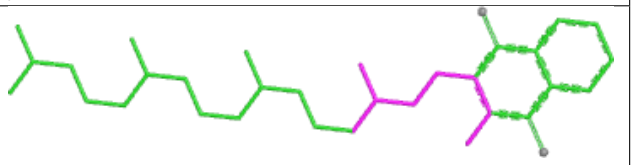


Rings

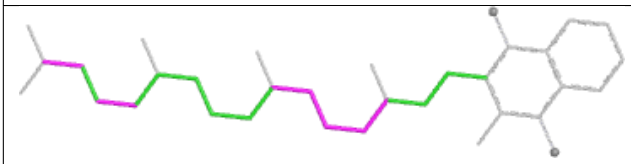
Ligand PQN a 845



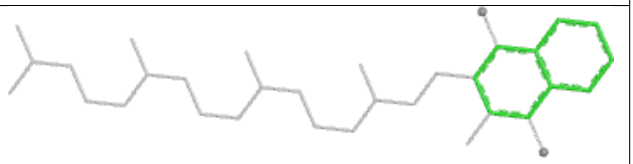
Bond lengths



Bond angles

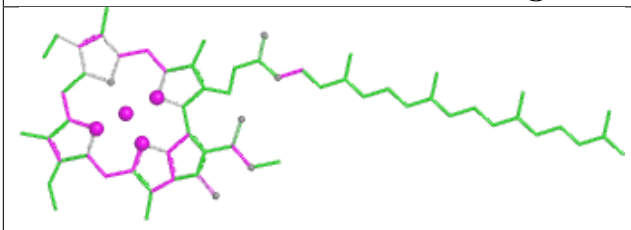


Torsions

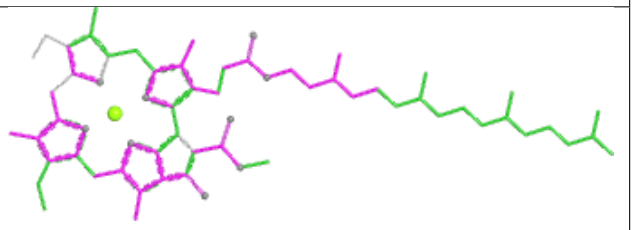


Rings

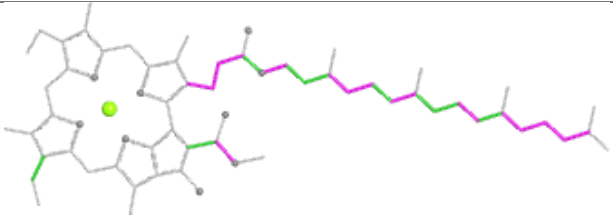
Ligand CLA b 809



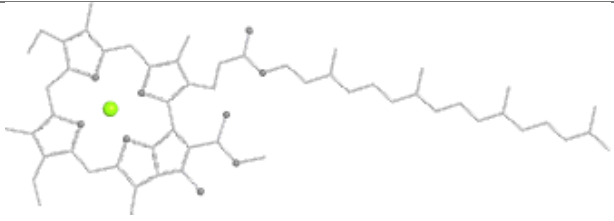
Bond lengths



Bond angles

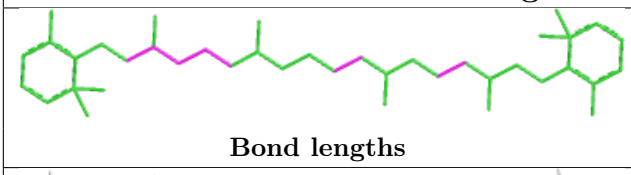


Torsions

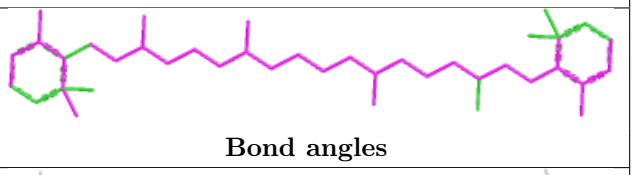


Rings

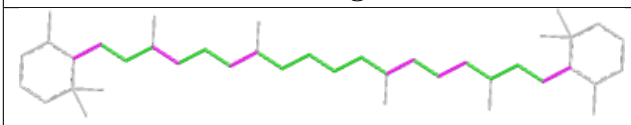
Ligand BCR G 849



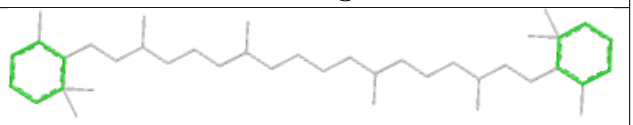
Bond lengths



Bond angles

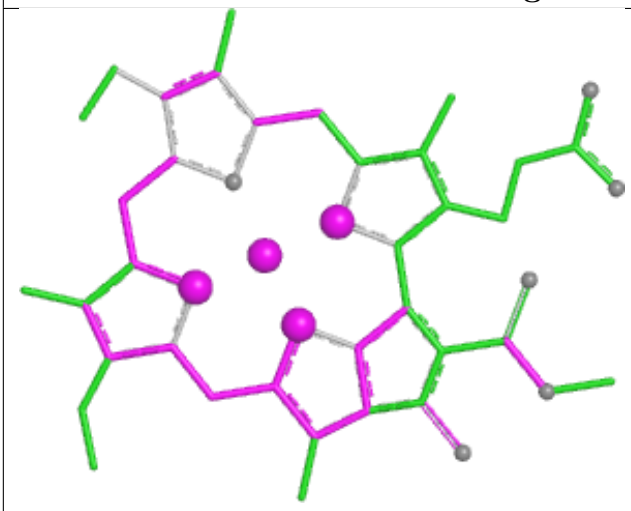


Torsions

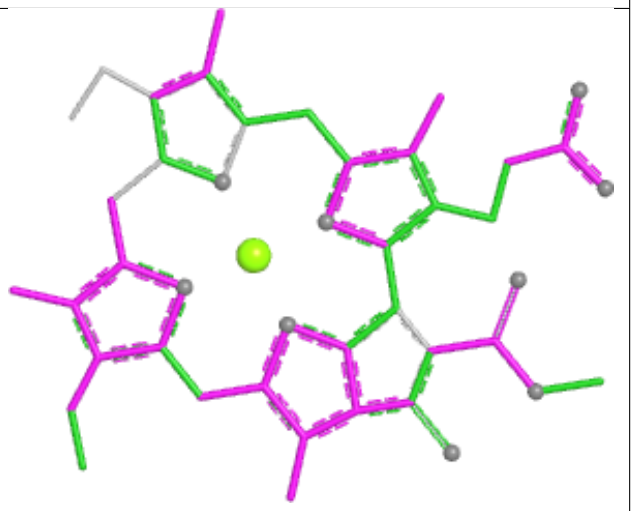


Rings

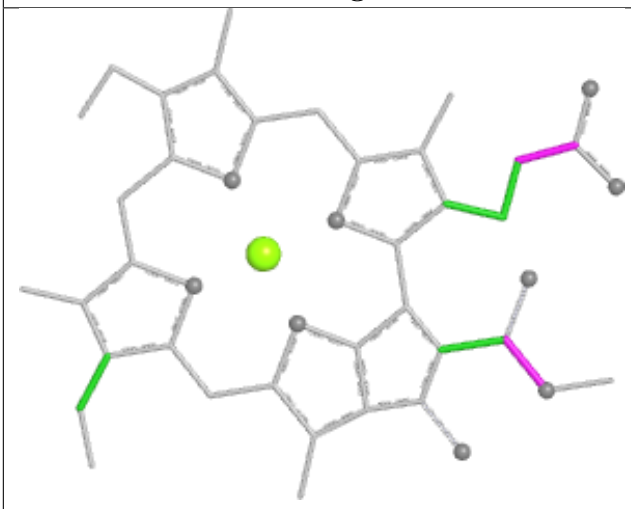
Ligand CLA A 824



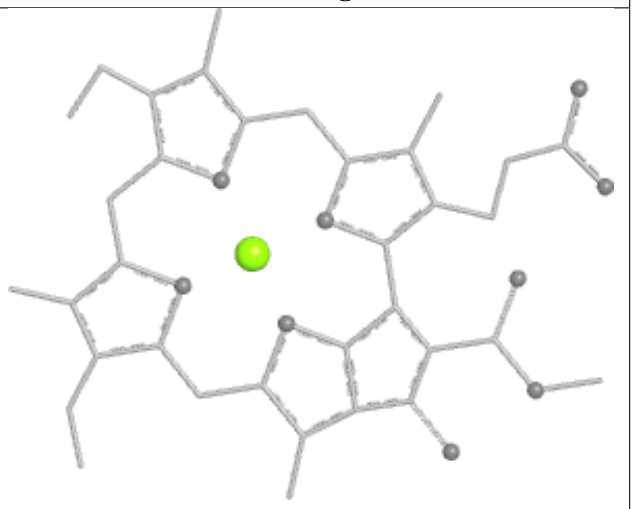
Bond lengths



Bond angles

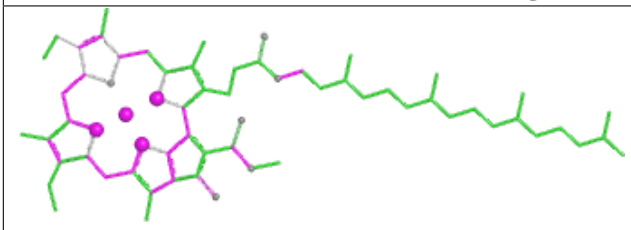


Torsions

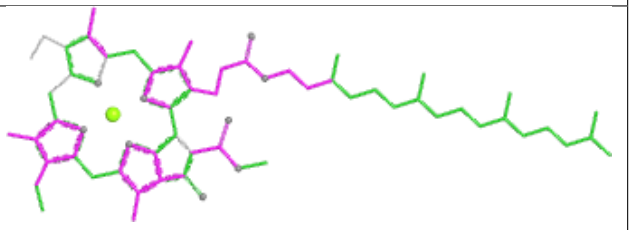


Rings

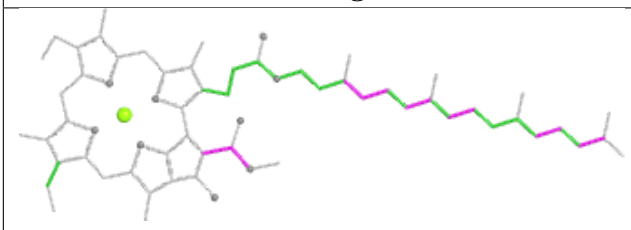
Ligand CLA B 808



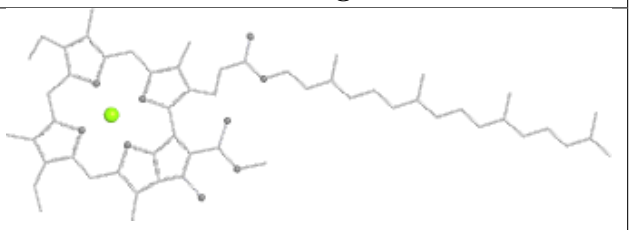
Bond lengths



Bond angles

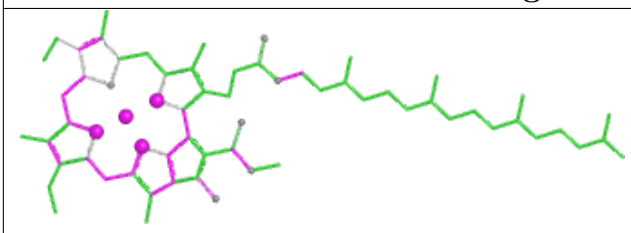


Torsions



Rings

Ligand CLA G 802



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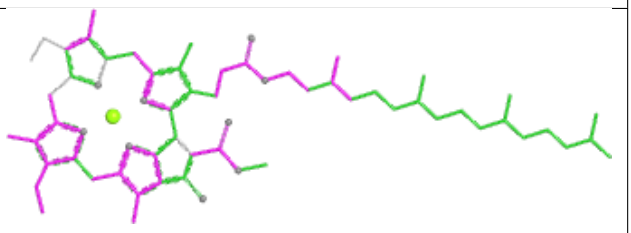
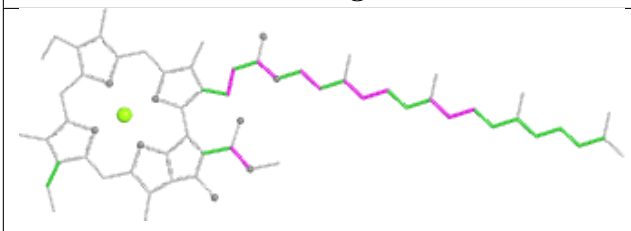


Bond angles



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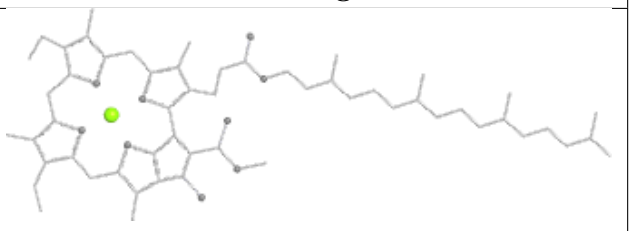
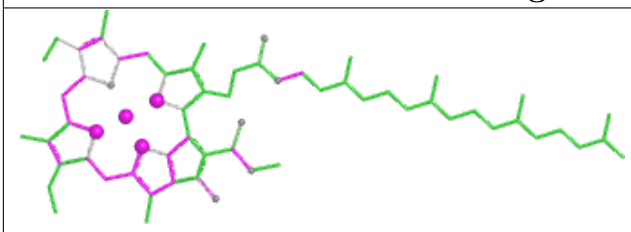
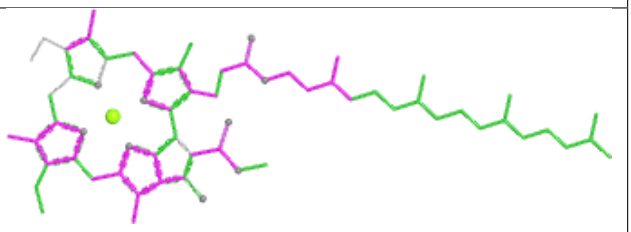


Rings

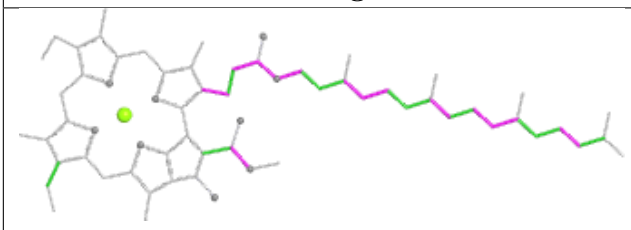
Ligand CLA a 806



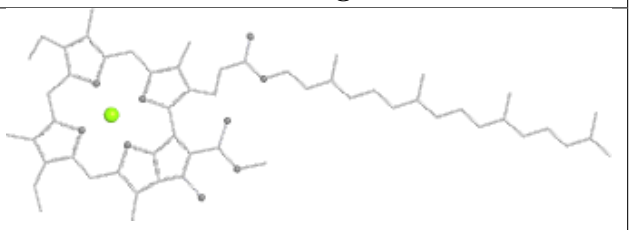
Bond lengths



Bond angles

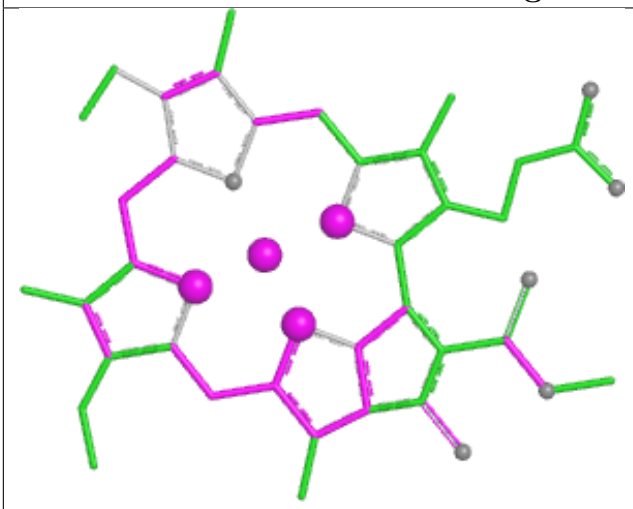


Torsions



Rings

Ligand CLA B 815



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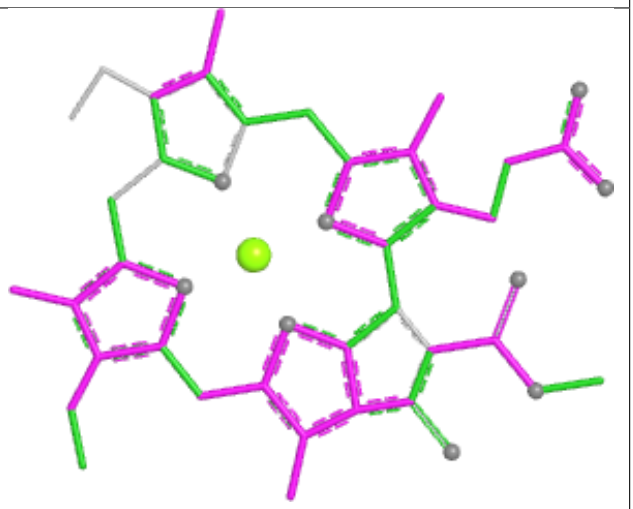
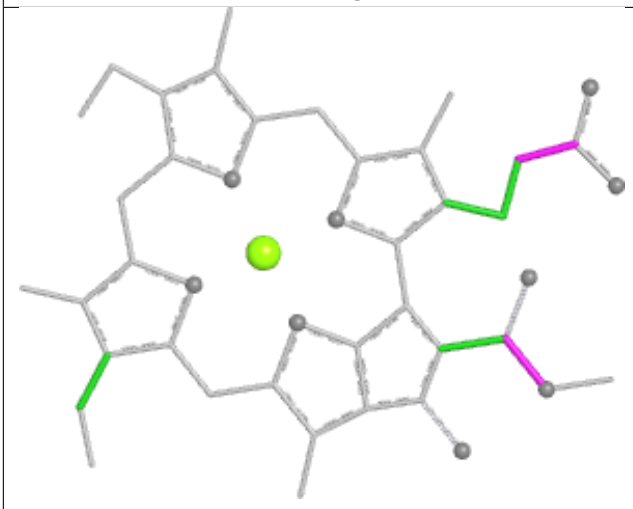


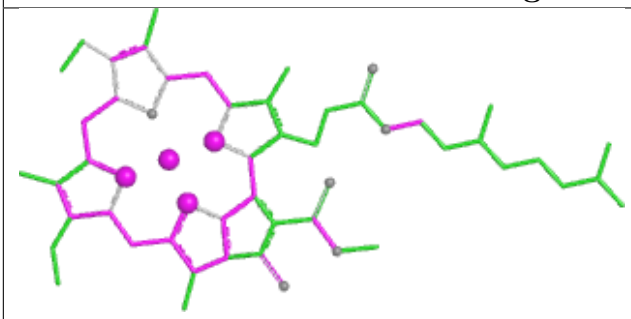
Bond angles



Torsions

Rings

Ligand CLA H 832



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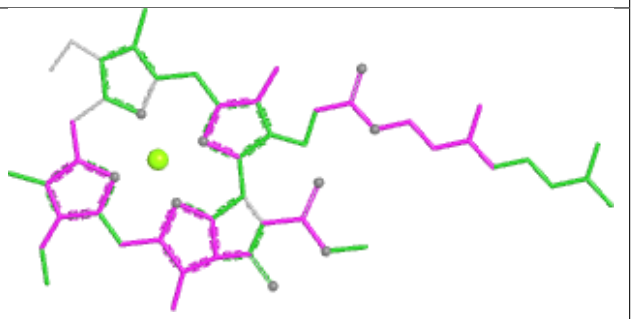
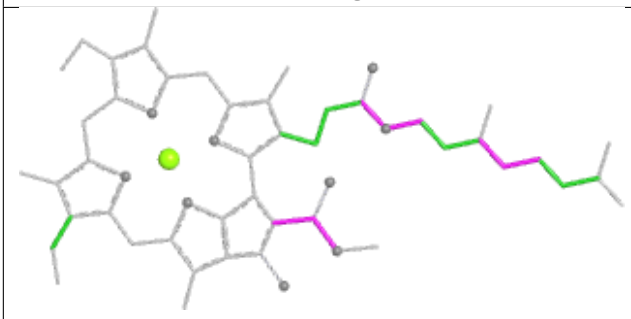
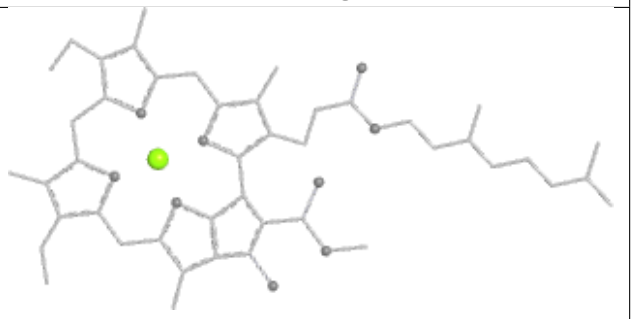


Bond angles

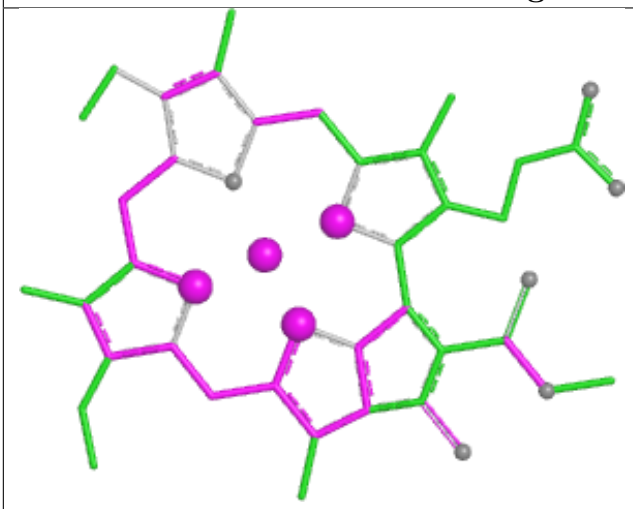


Torsions



Rings

Ligand CLA b 833



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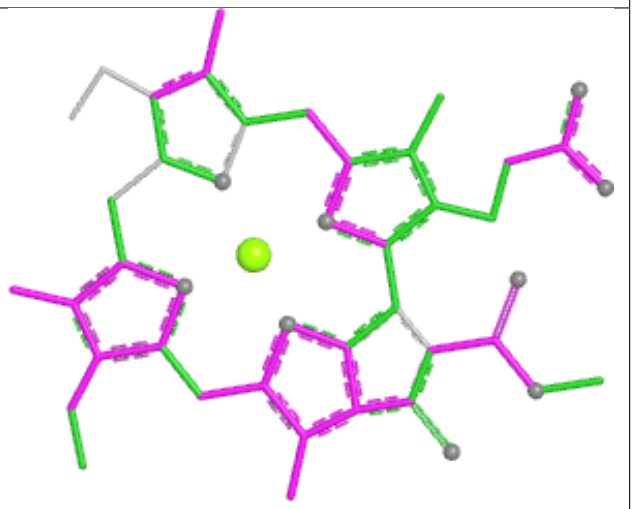
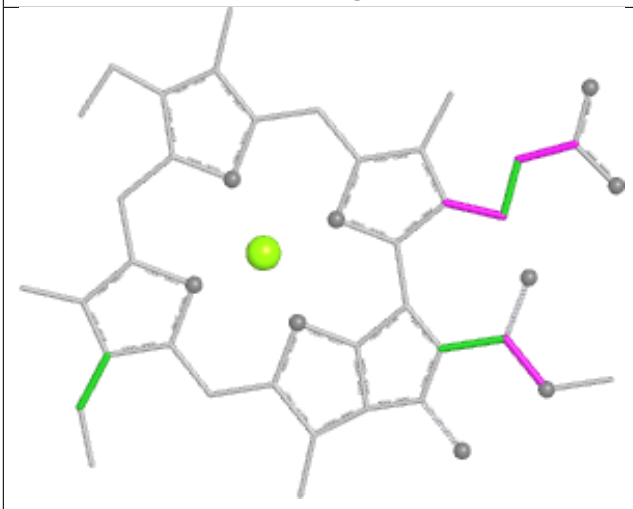


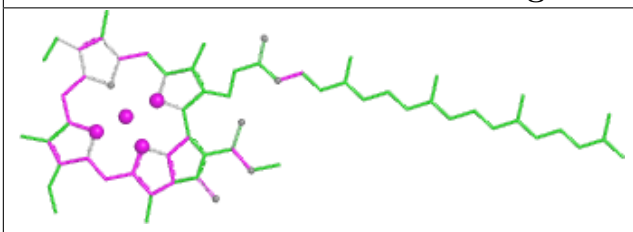
Bond angles



Torsions

Rings

Ligand CLA b 806



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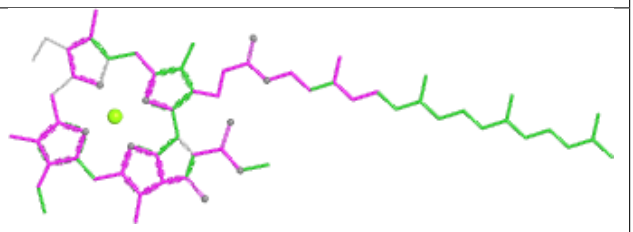
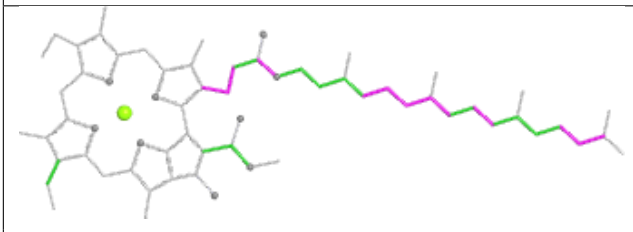
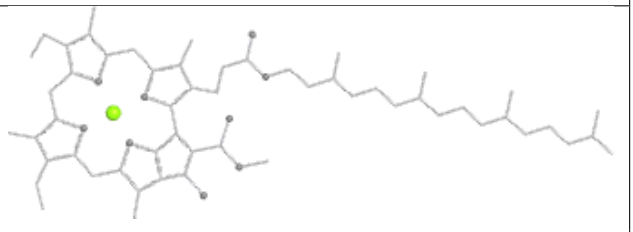


Bond angles

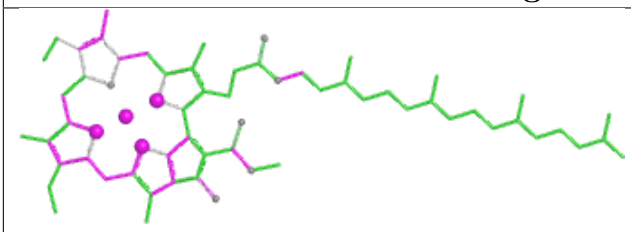


Torsions

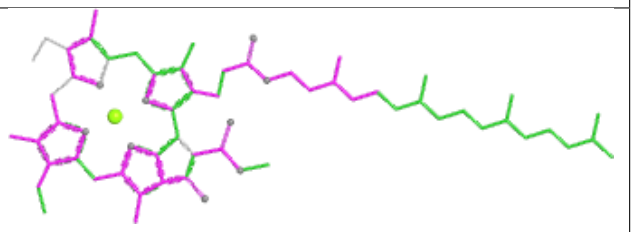


Rings

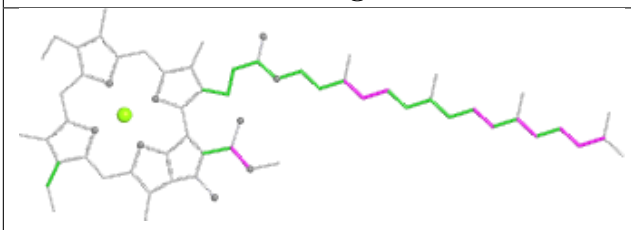
Ligand CLA H 809



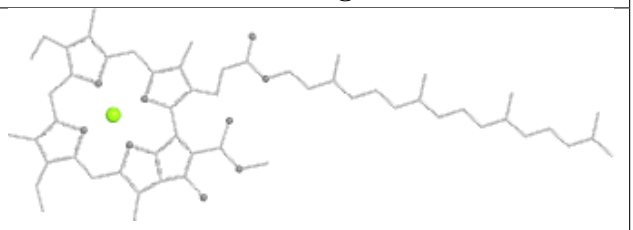
Bond lengths



Bond angles

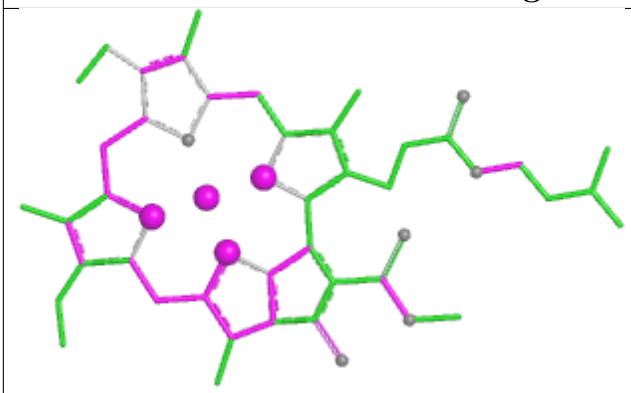


Torsions



Rings

Ligand CLA G 832



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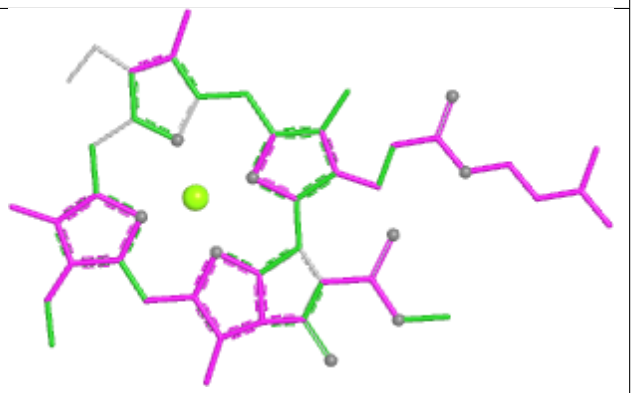
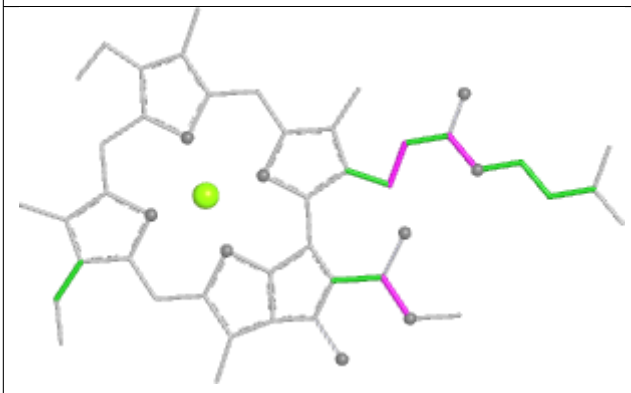


Bond angles



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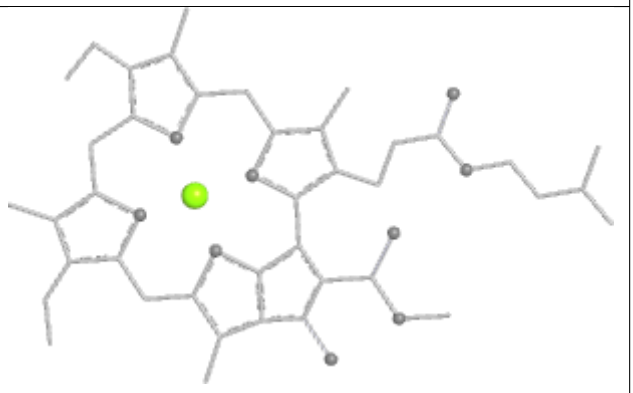
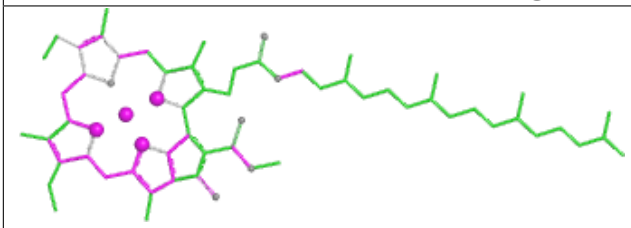


Rings

Ligand CLA a 821



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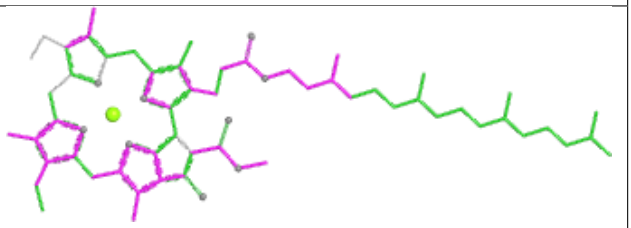
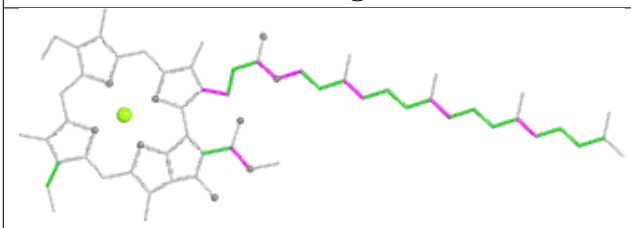
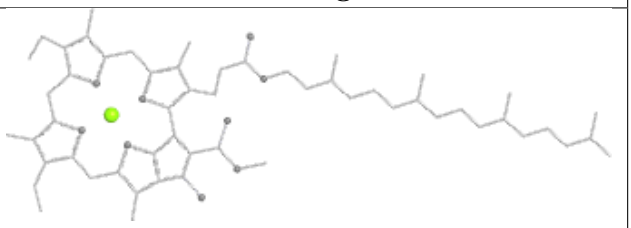


Bond angles

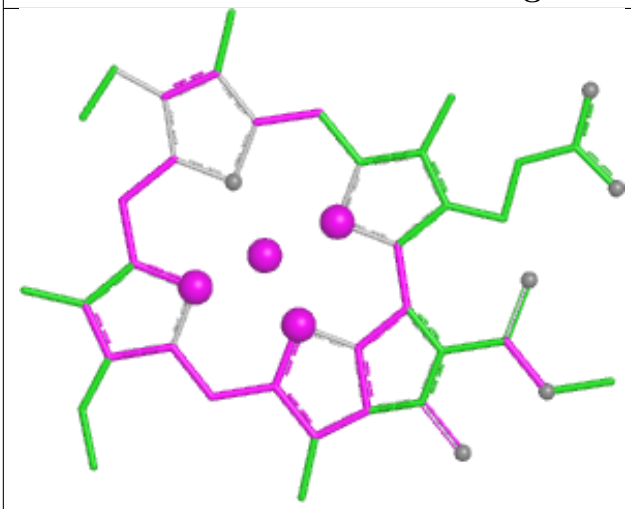


Torsions



Rings

Ligand CLA A 817



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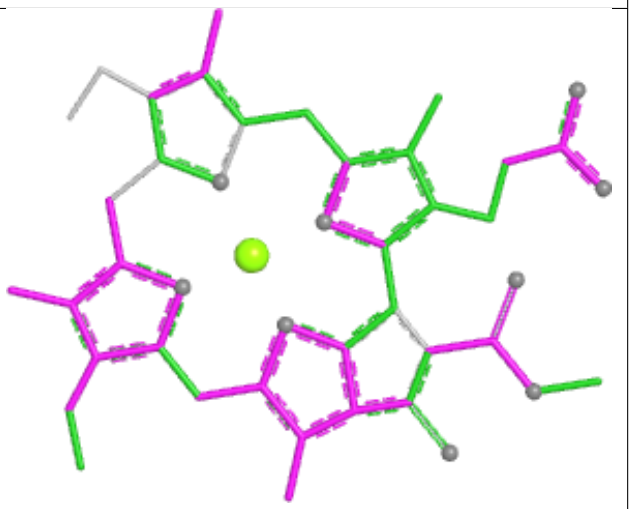
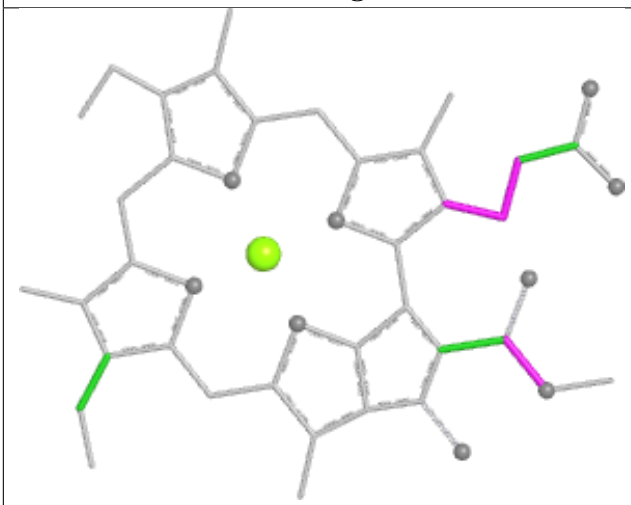
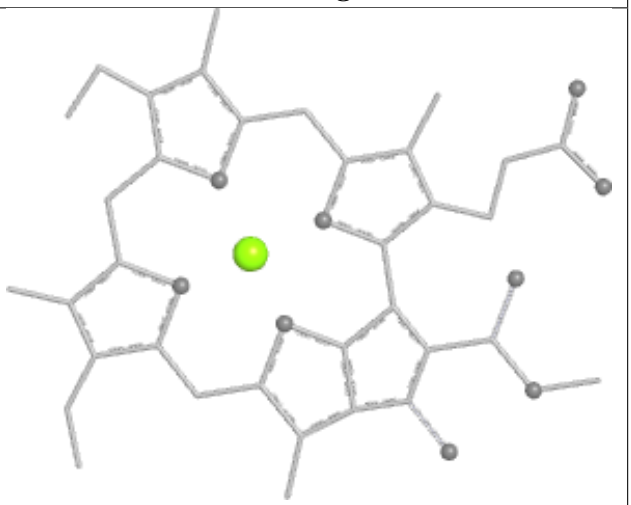


Bond angles

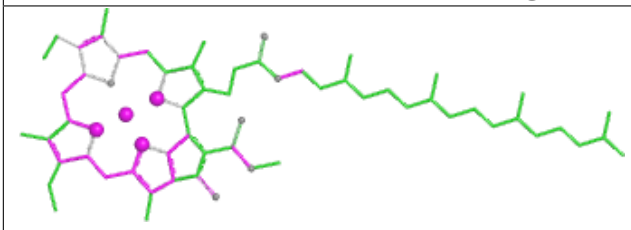


Torsions

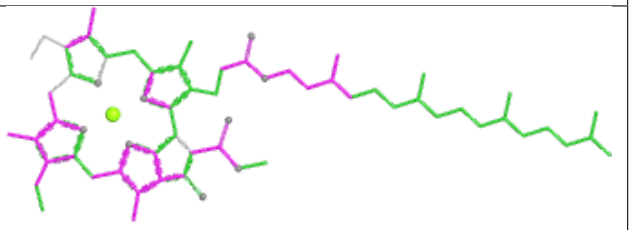


Rings

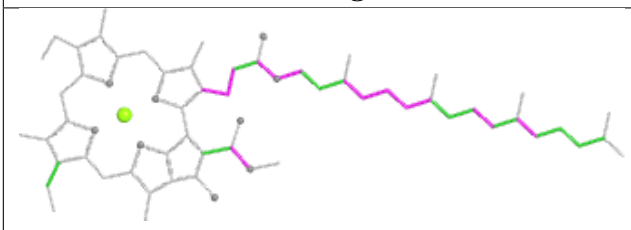
Ligand CLA U 206



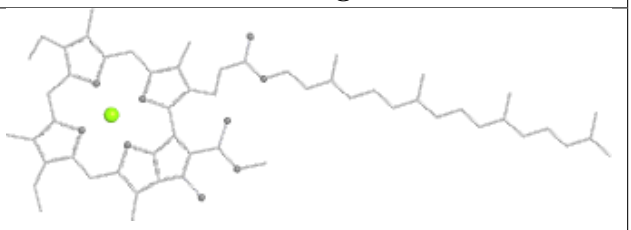
Bond lengths



Bond angles

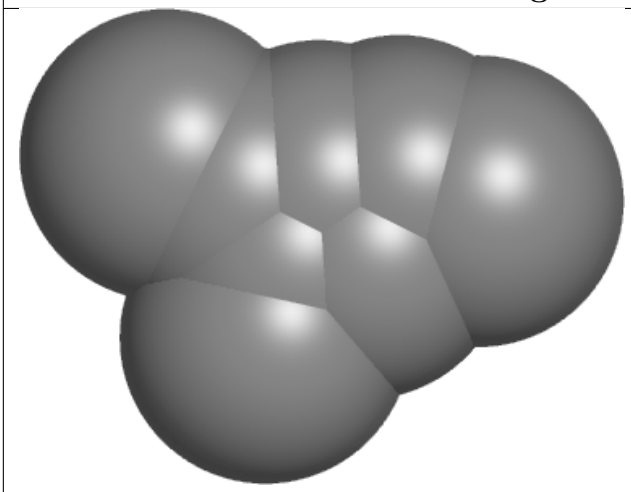


Torsions

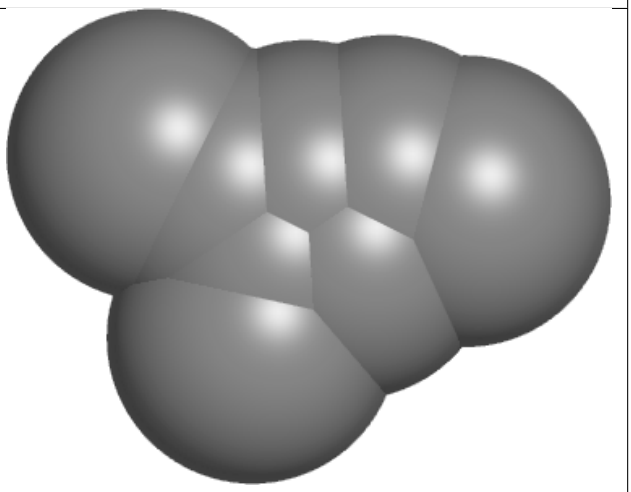


Rings

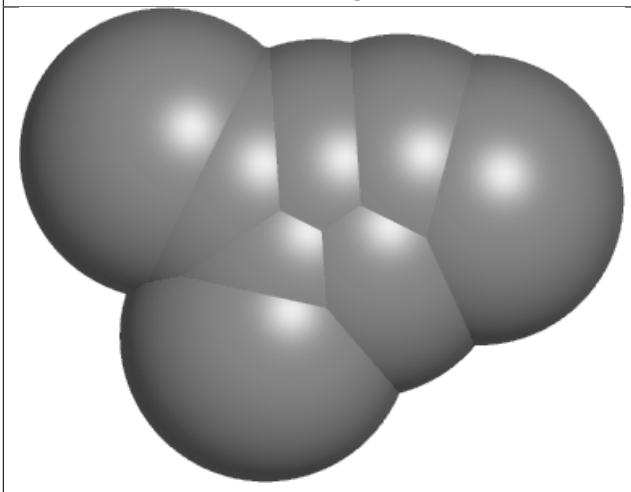
Ligand SF4 G 847



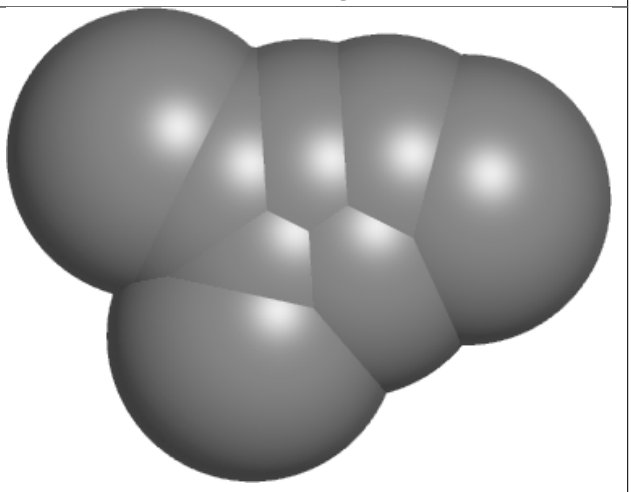
Bond lengths



Bond angles

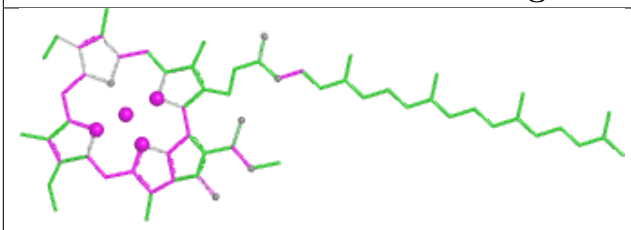


Torsions

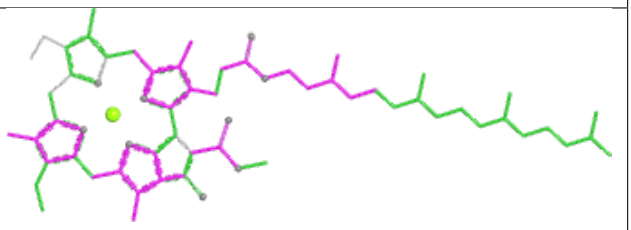


Rings

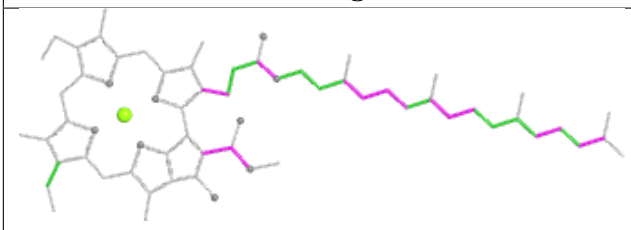
Ligand CLA a 808



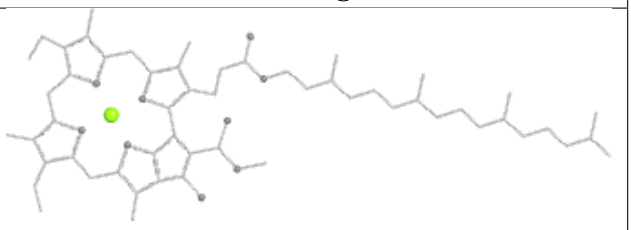
Bond lengths



Bond angles

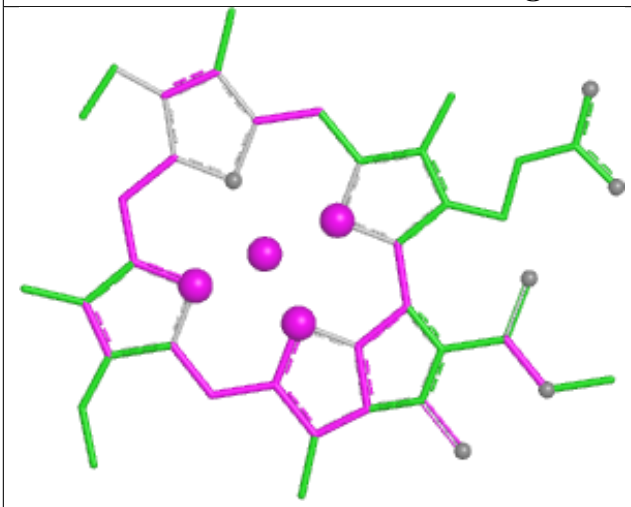


Torsions

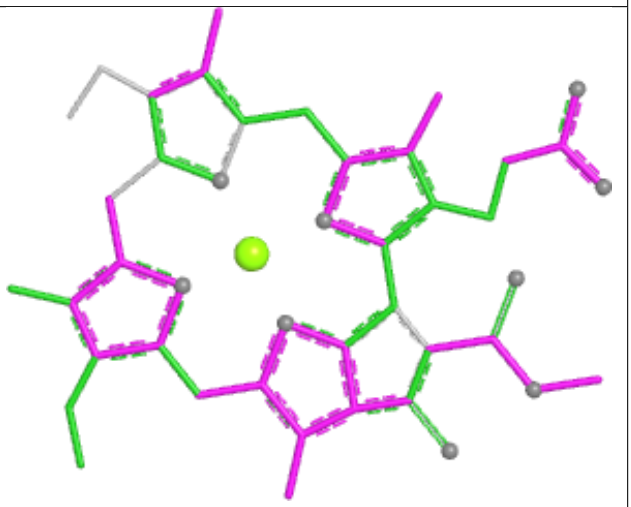


Rings

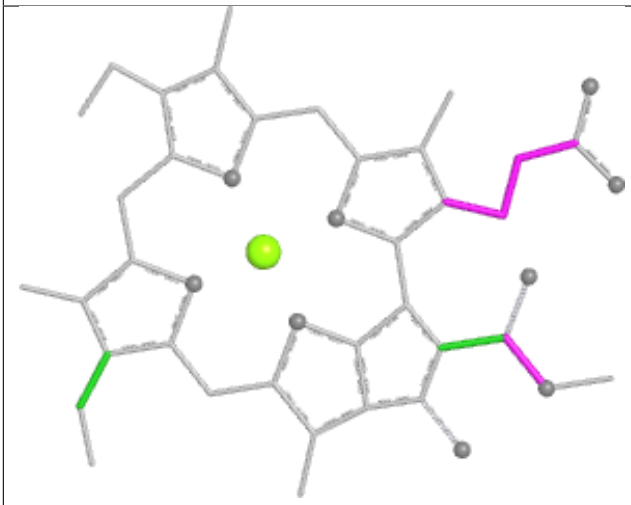
Ligand CLA B 834



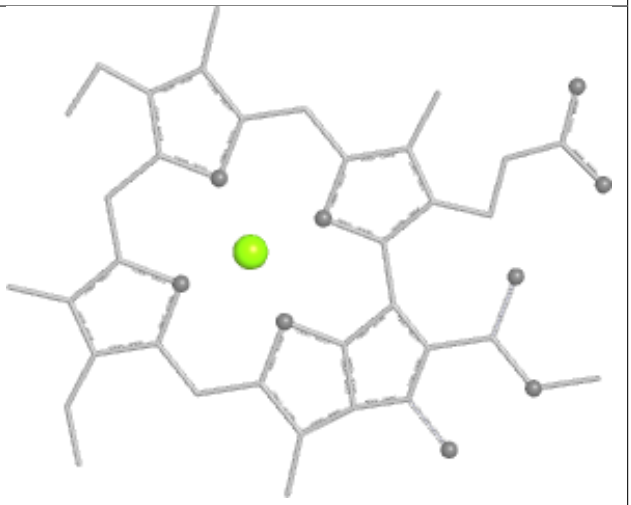
Bond lengths



Bond angles

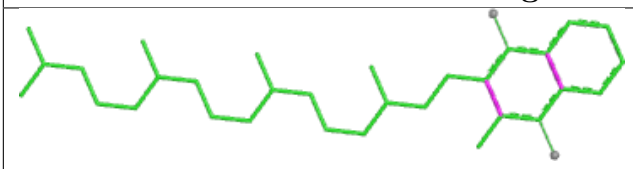


Torsions



Rings

Ligand PQN A 846



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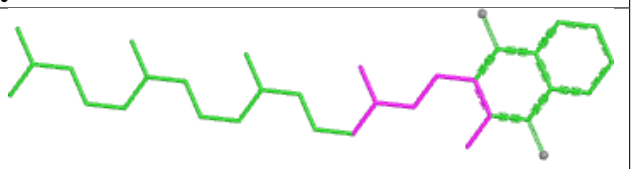
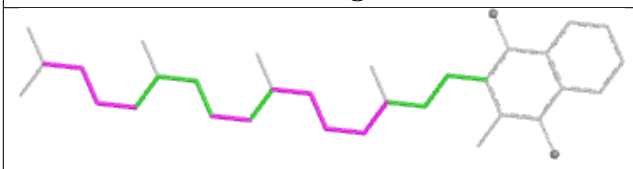
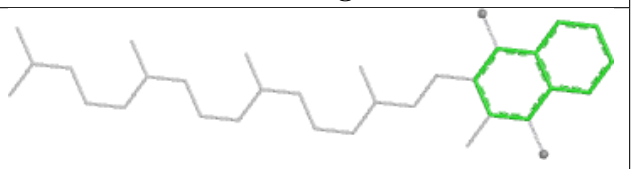


Bond angles

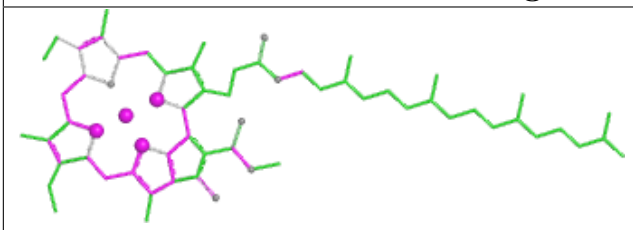


Torsions

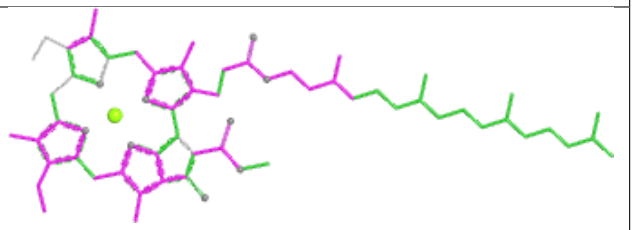


Rings

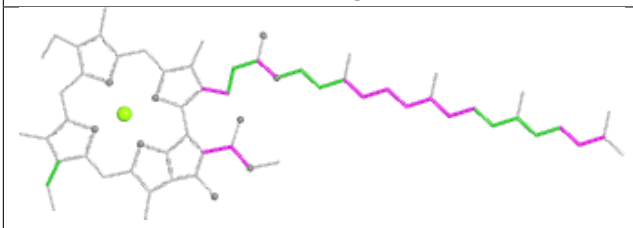
Ligand CLA A 809



Bond lengths



Bond angles



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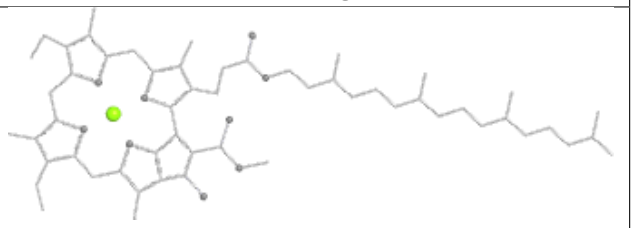
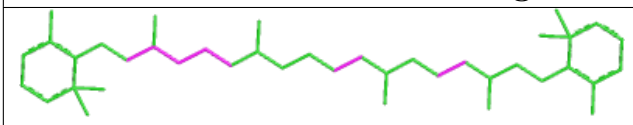
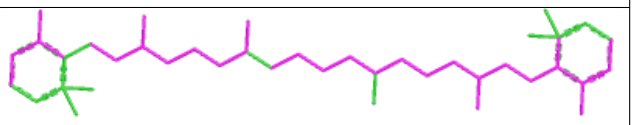


Rings

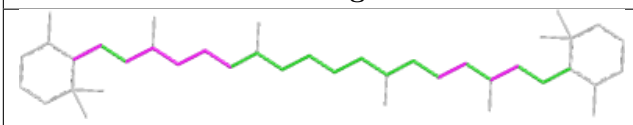
Ligand BCR V 1602



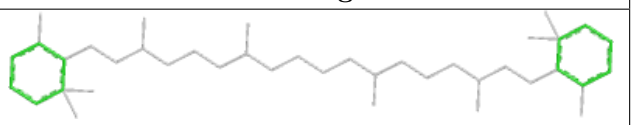
Bond lengths



Bond angles

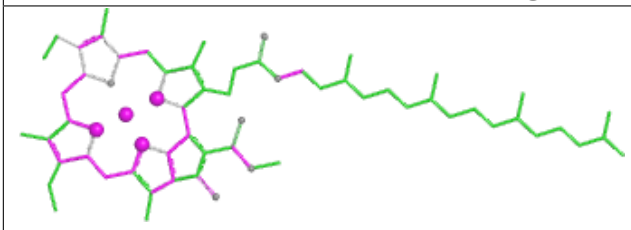


Torsions

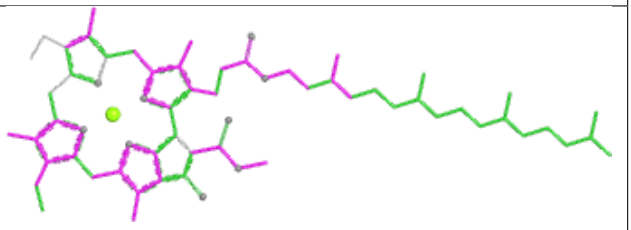


Rings

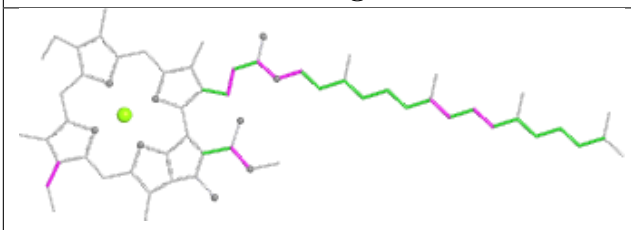
Ligand CLA B 803



Bond lengths



Bond angles



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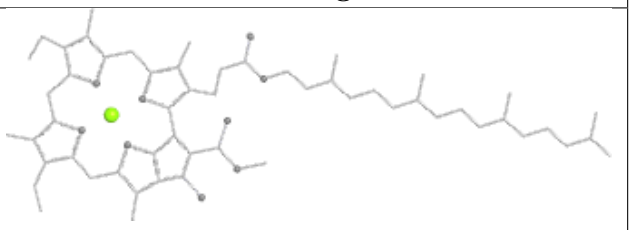
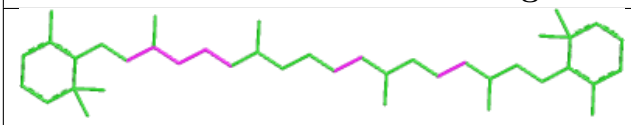


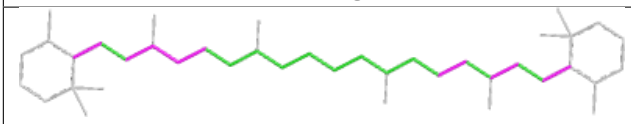
Rings

Ligand BCR H 842

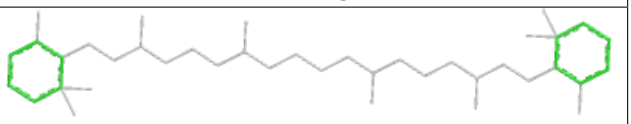


Bond lengths

Bond angles

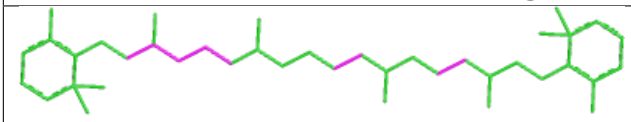


Torsions

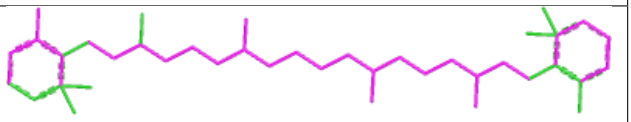


Rings

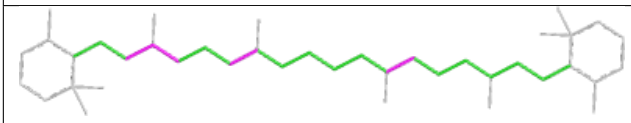
Ligand BCR U 202



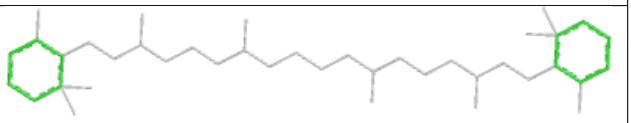
Bond lengths



Bond angles

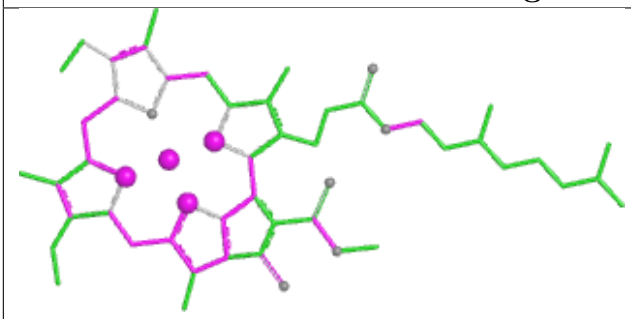


Torsions

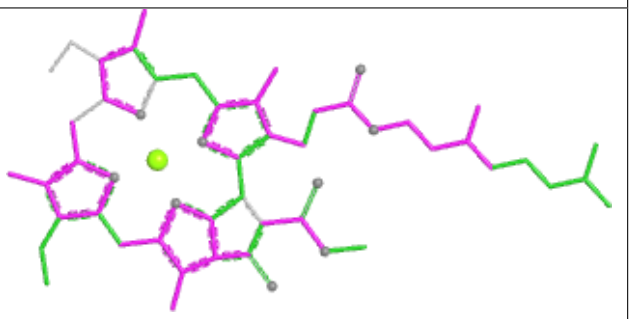


Rings

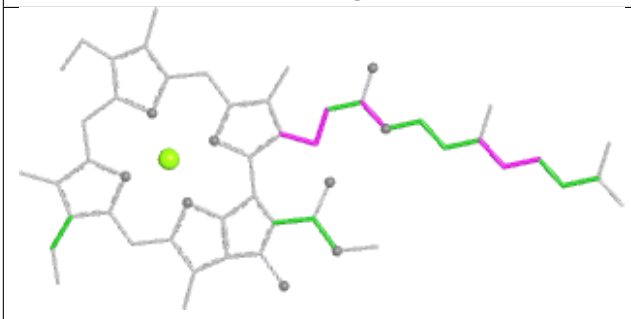
Ligand CLA A 825



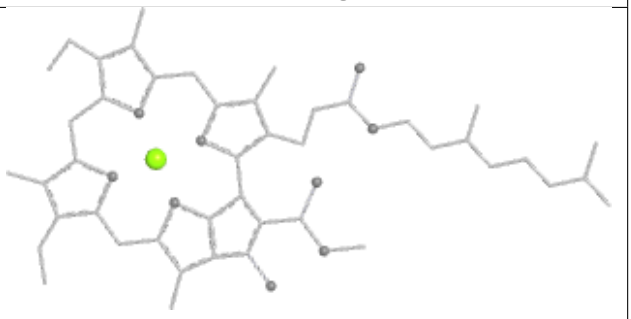
Bond lengths



Bond angles

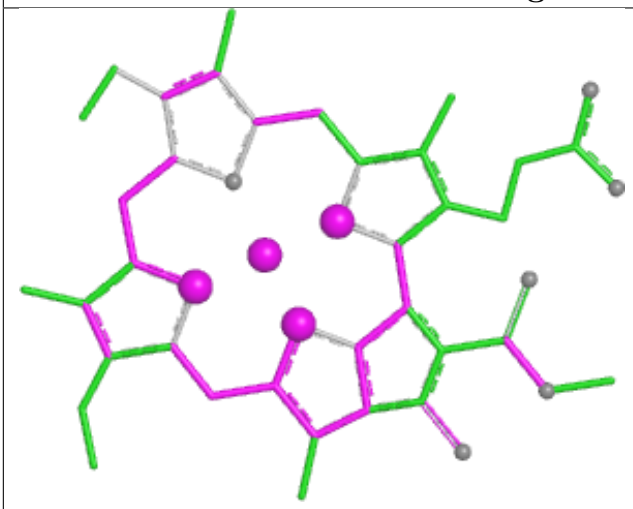


Torsions



Rings

Ligand CLA b 814



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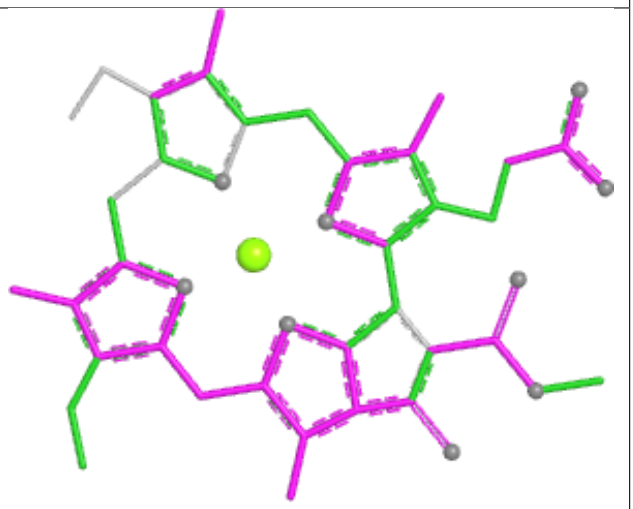
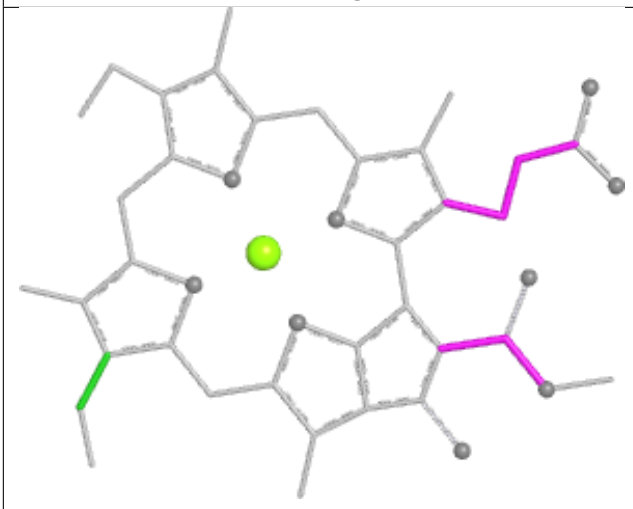


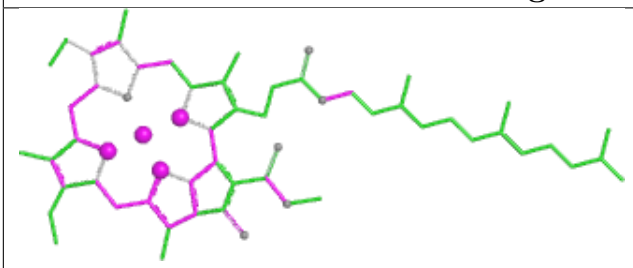
Bond angles



Torsions

Rings

Ligand CLA a 813



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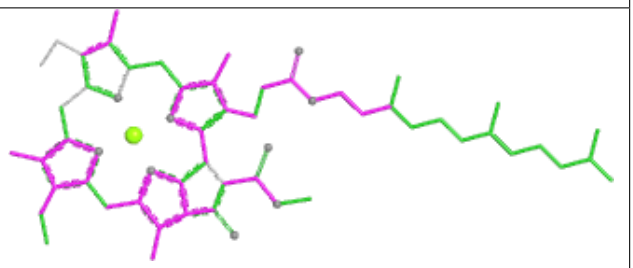
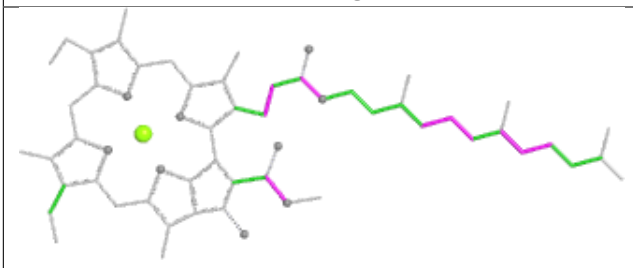
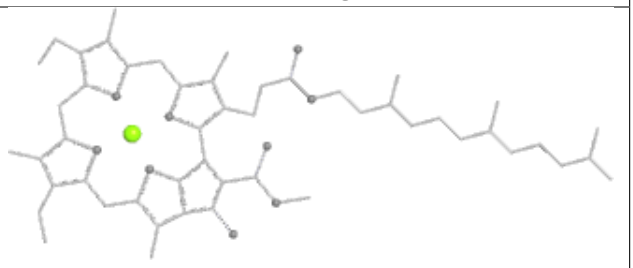


Bond angles

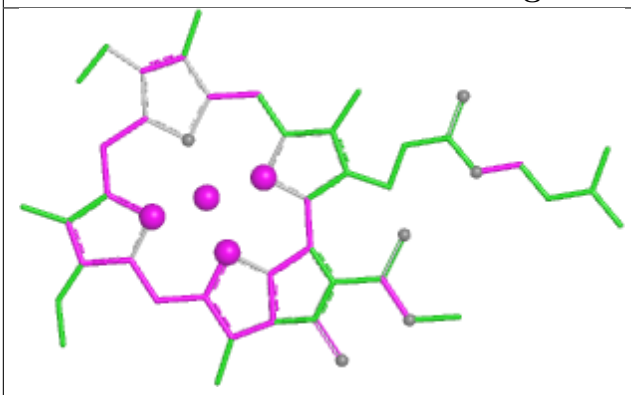


Torsions



Rings

Ligand CLA A 838



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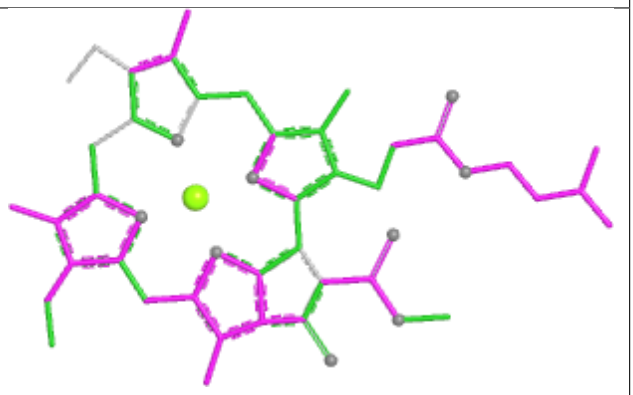
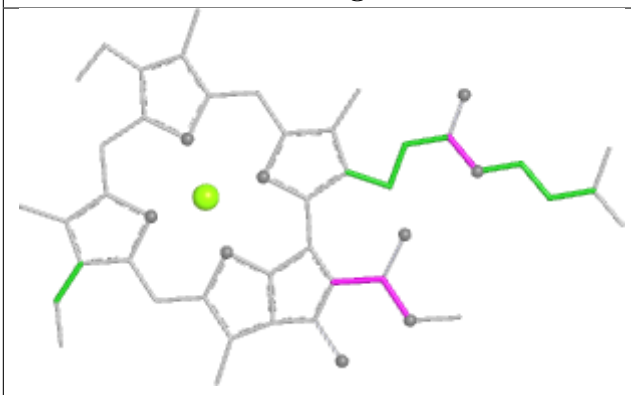


Bond angles



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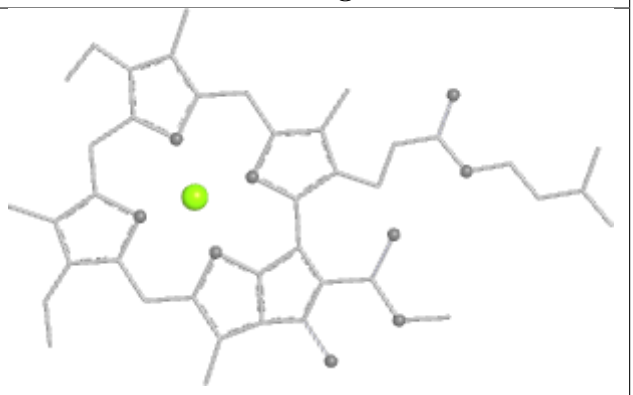
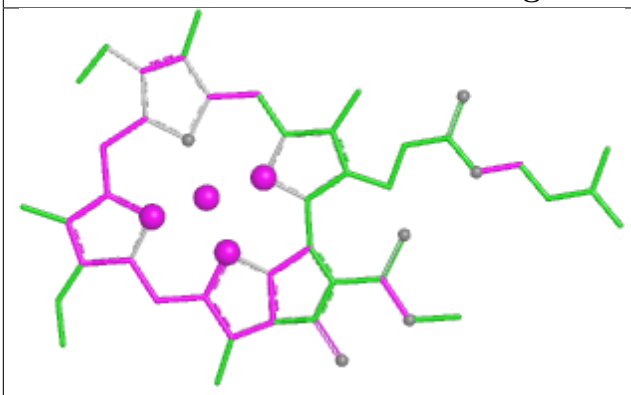
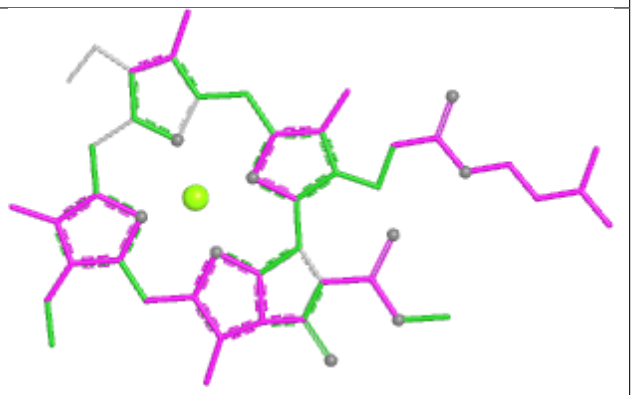


Rings

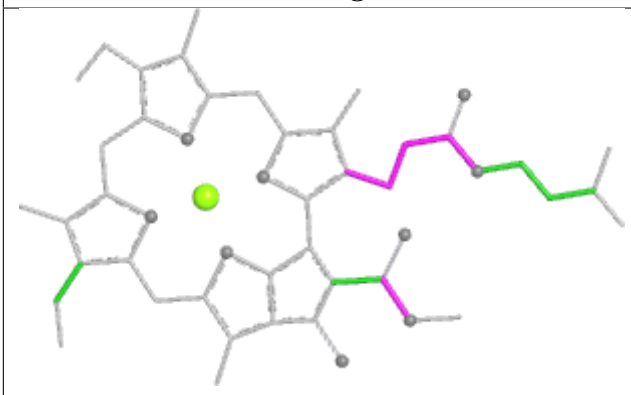
Ligand CLA G 819



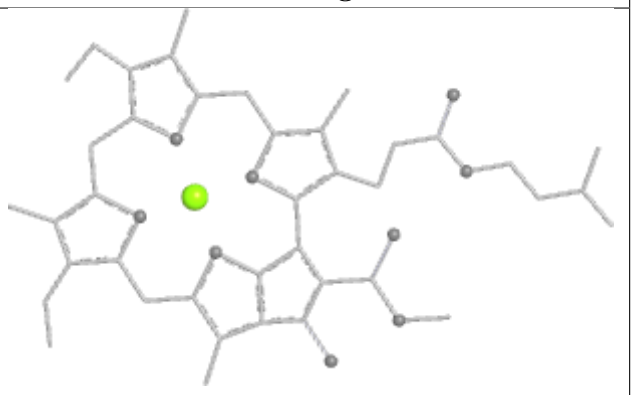
Bond lengths



Bond angles

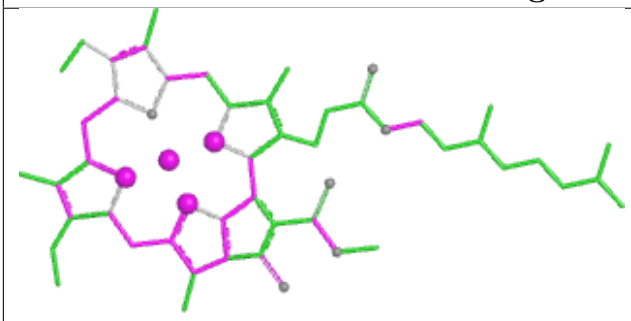


Torsions

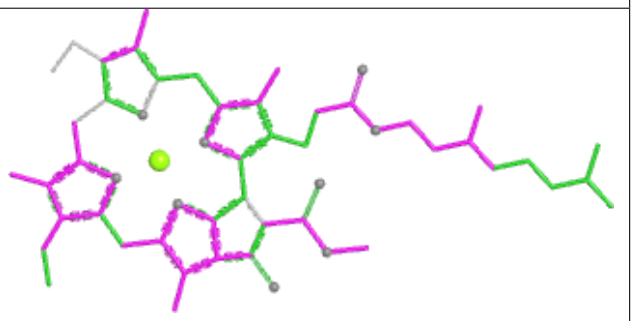


Rings

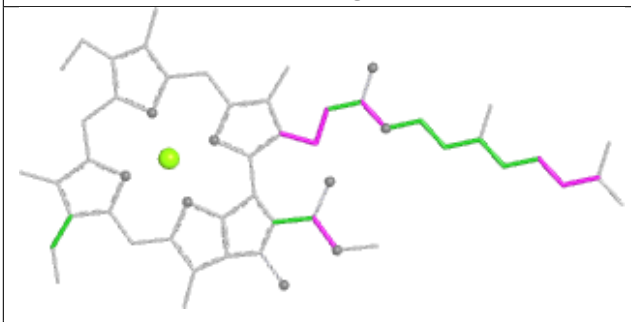
Ligand CLA a 824



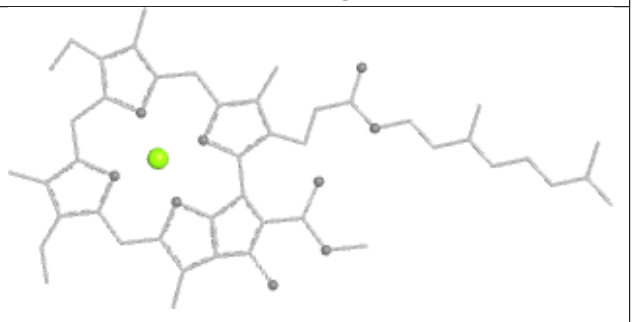
Bond lengths



Bond angles

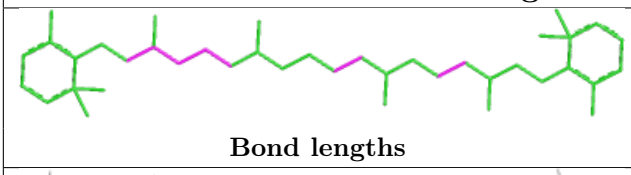


Torsions

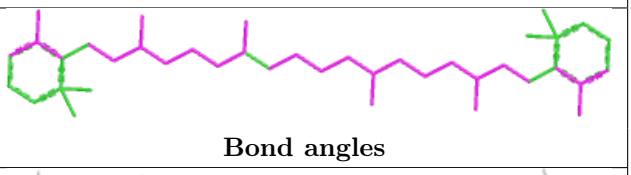


Rings

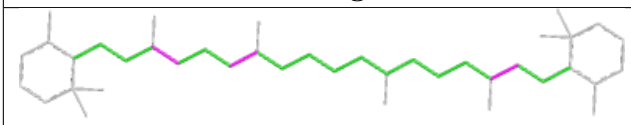
Ligand BCR H 843



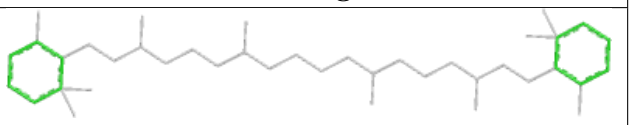
Bond lengths



Bond angles

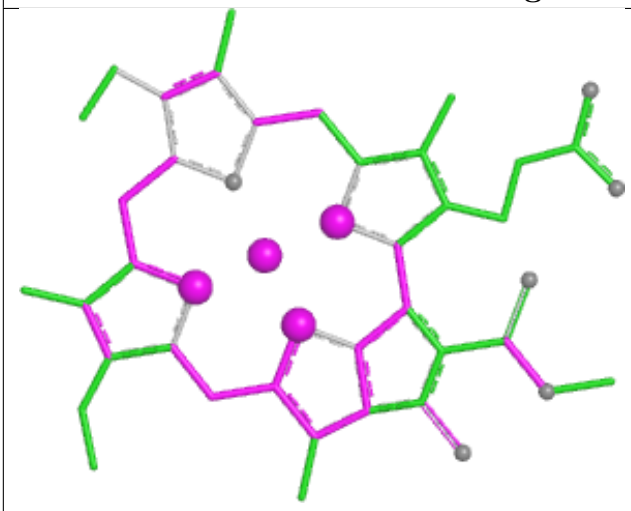


Torsions

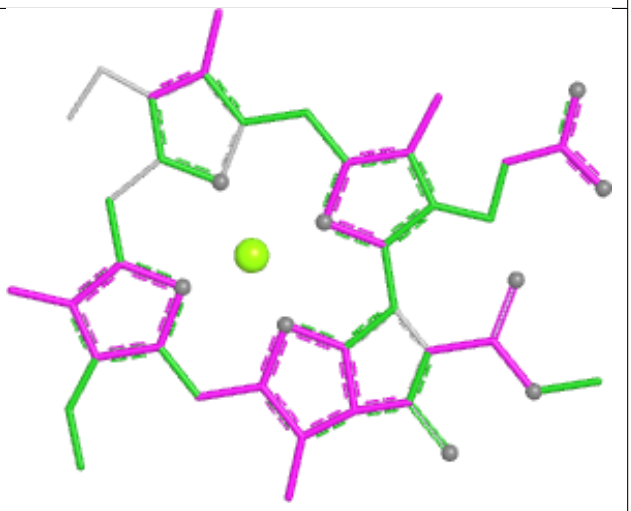


Rings

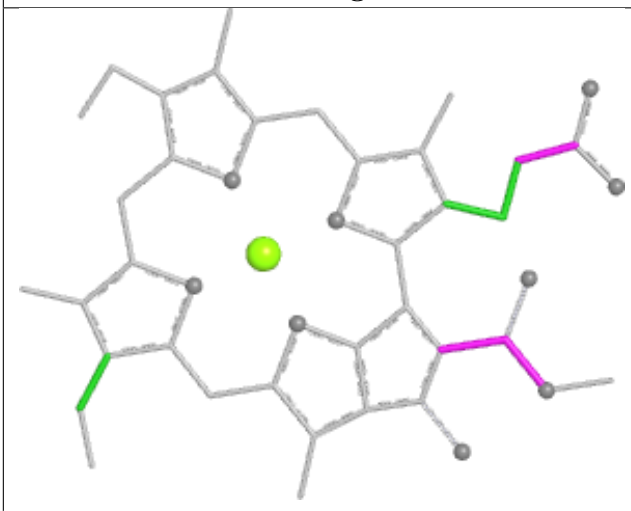
Ligand CLA B 820



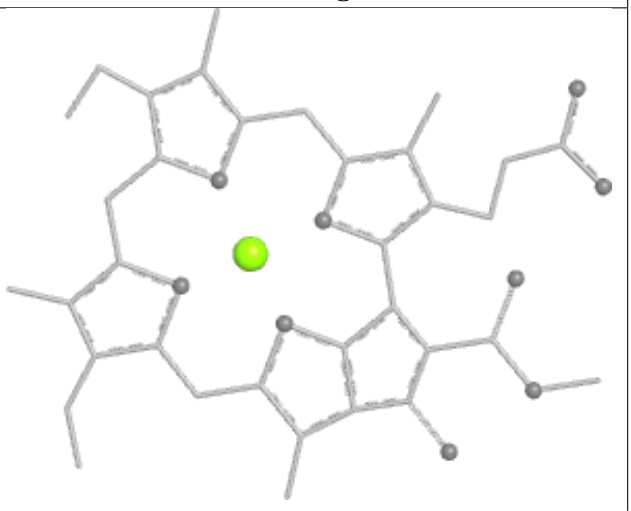
Bond lengths



Bond angles

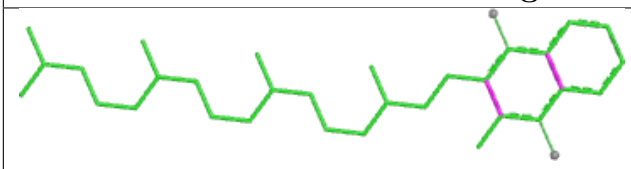


Torsions

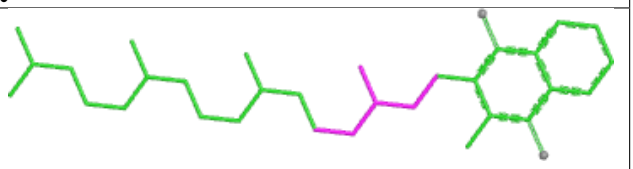


Rings

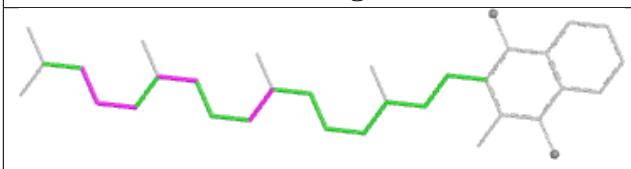
Ligand PQN H 841



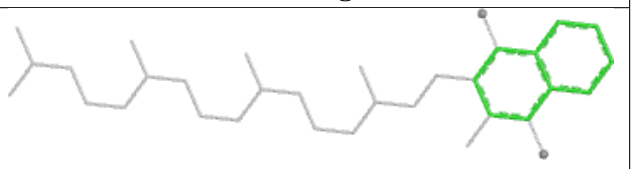
Bond lengths



Bond angles

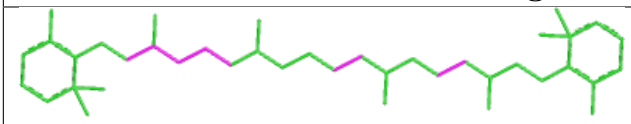


Torsions

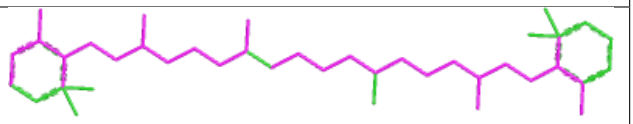


Rings

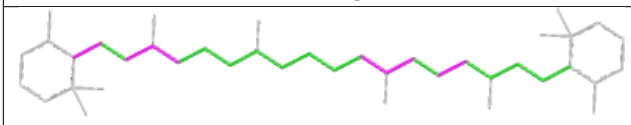
Ligand BCR a 852



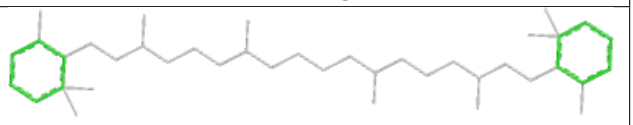
Bond lengths



Bond angles

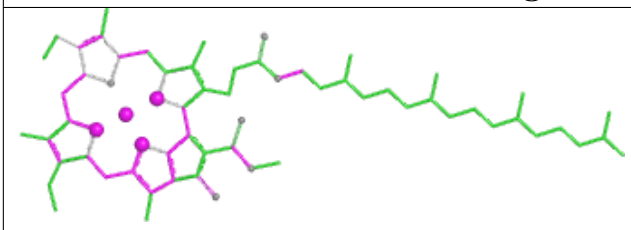


Torsions

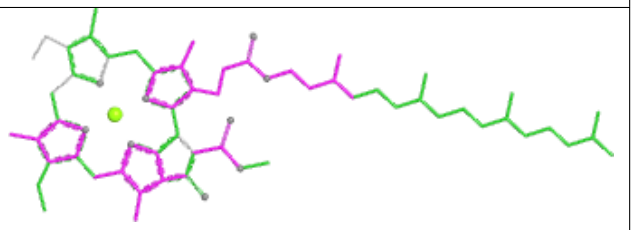


Rings

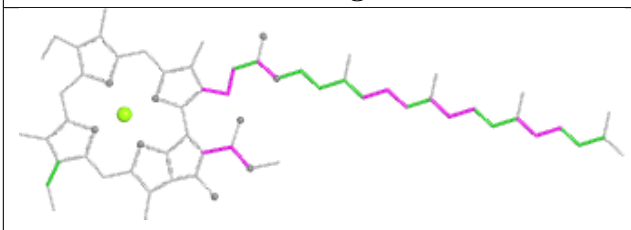
Ligand CLA G 809



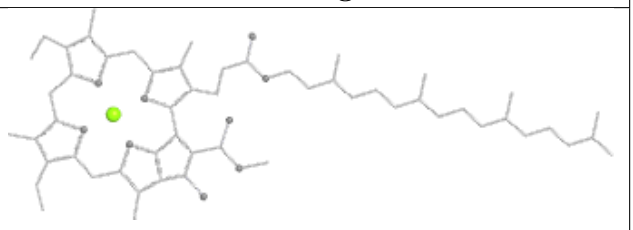
Bond lengths



Bond angles

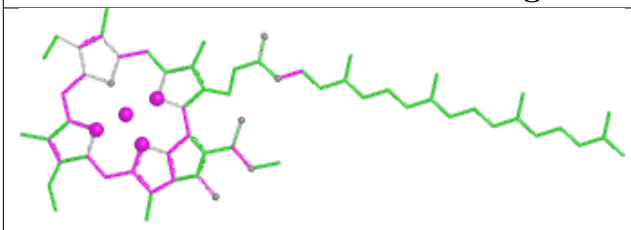


Torsions

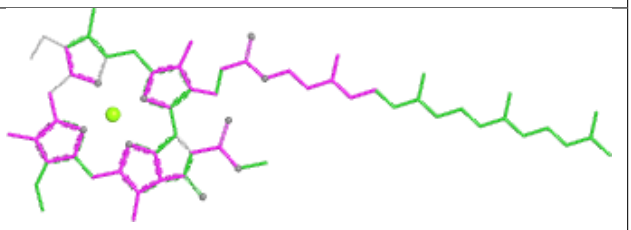


Rings

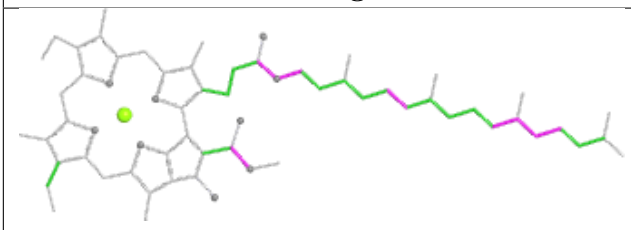
Ligand CLA H 840



Bond lengths



Bond angles



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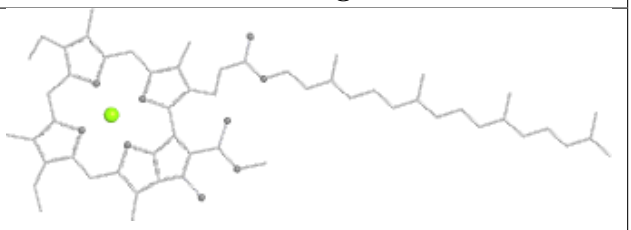
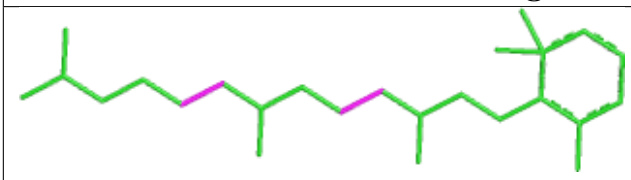
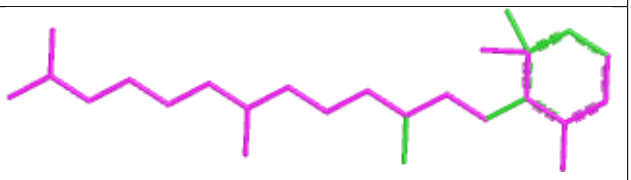


Rings

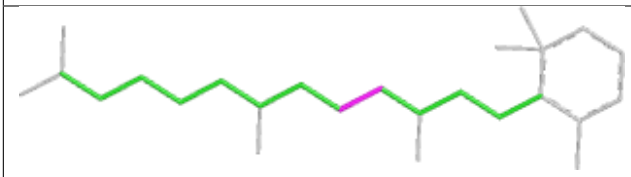
Ligand BCR b 845



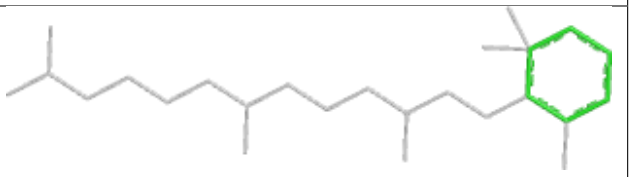
Bond lengths



Bond angles

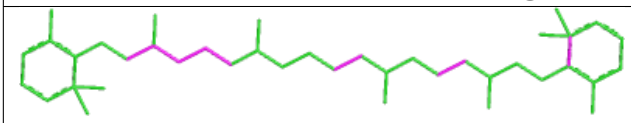


Torsions

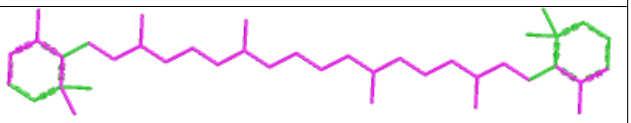


Rings

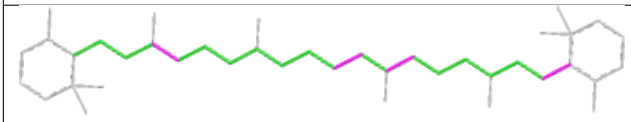
Ligand BCR H 846



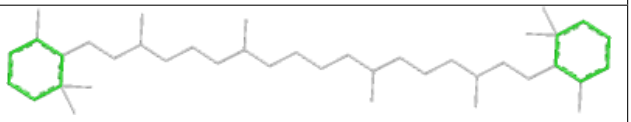
Bond lengths



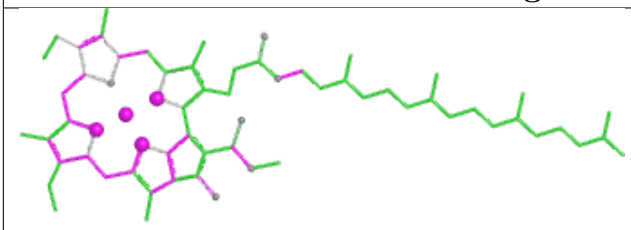
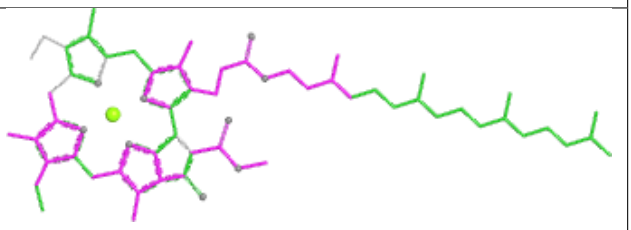
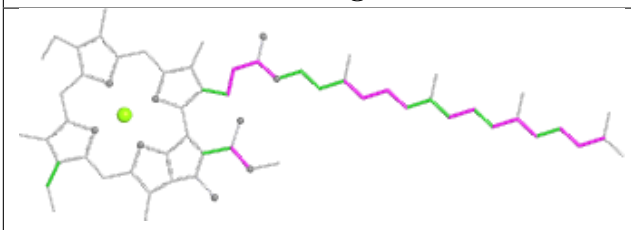
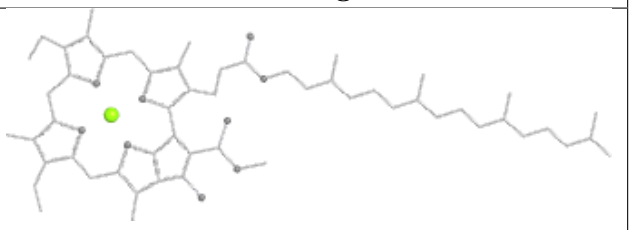
Bond angles

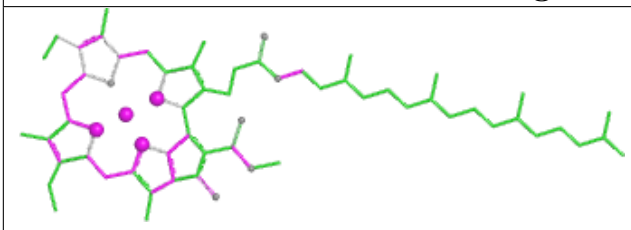
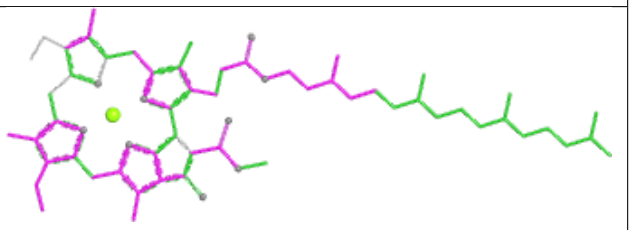
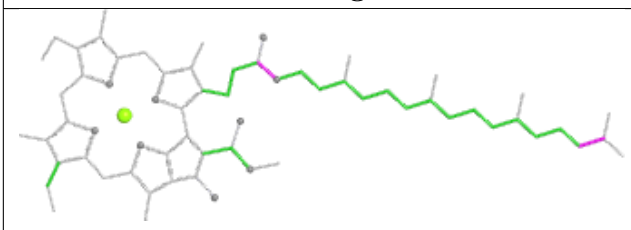
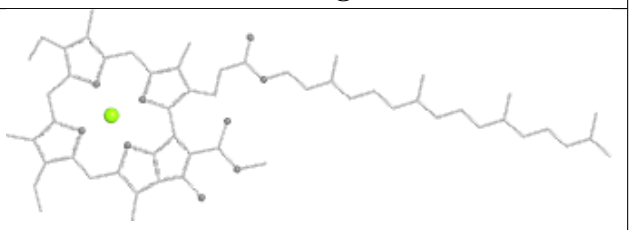


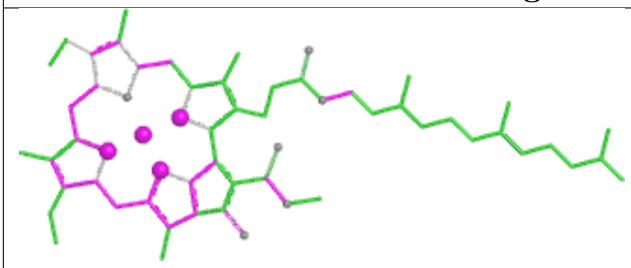
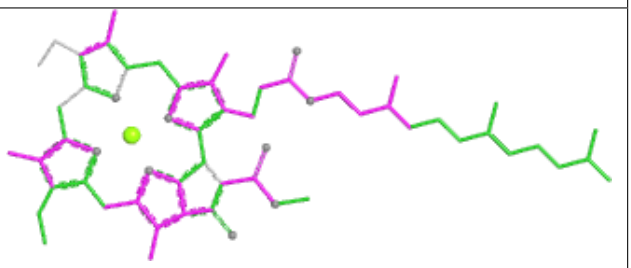
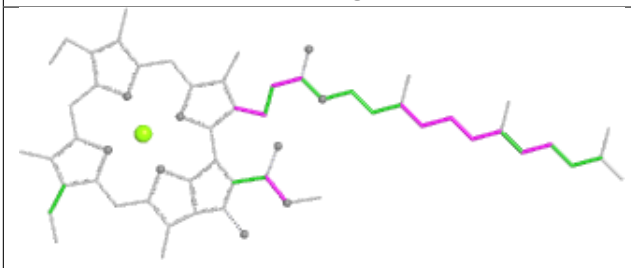
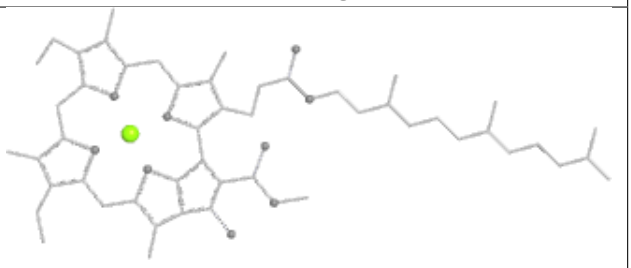
Torsions

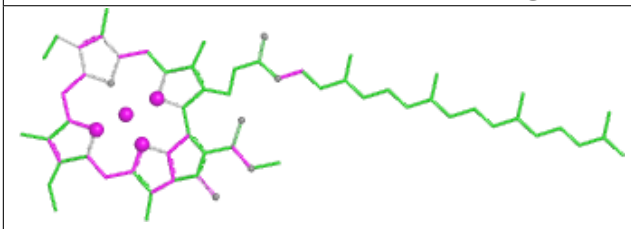
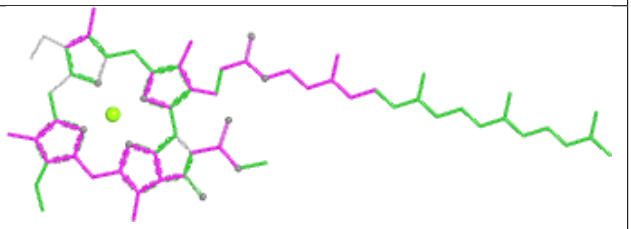
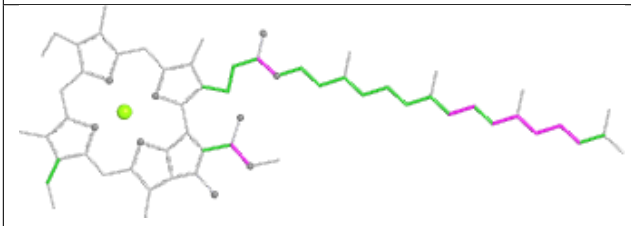
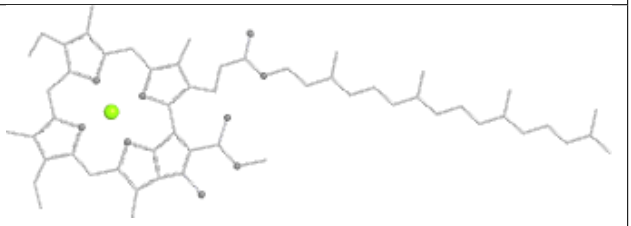


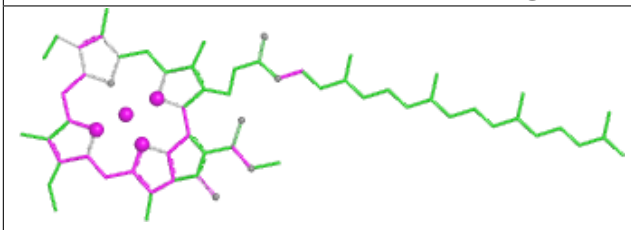
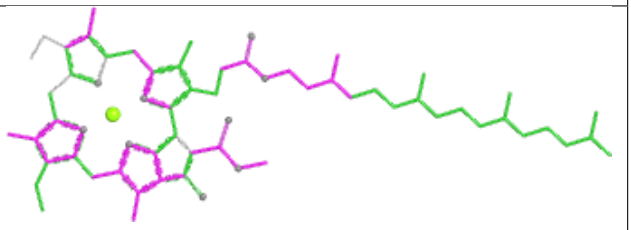
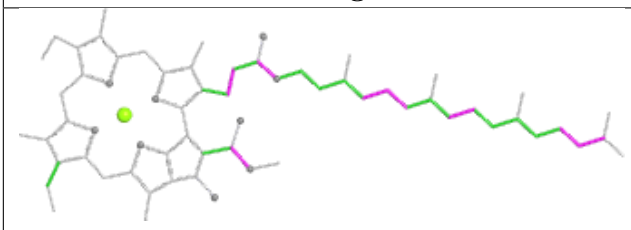
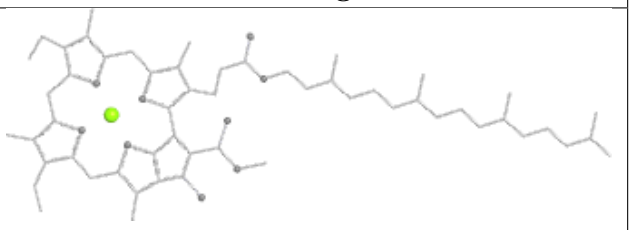
Rings

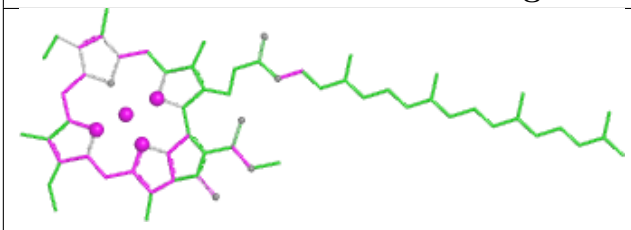
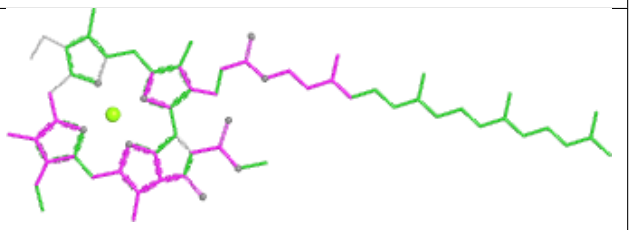
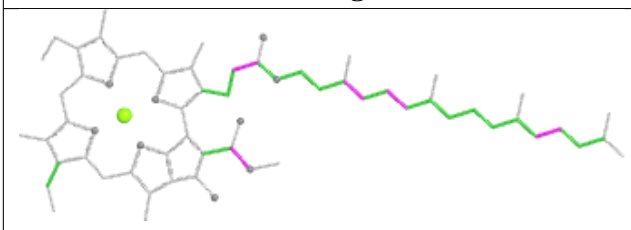
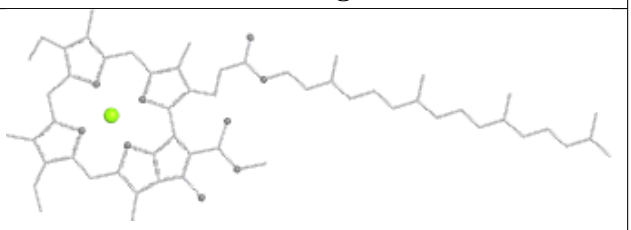
Ligand CLA A 844	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CL0 a 801	
	
Bond lengths	Bond angles
	
Torsions	Rings

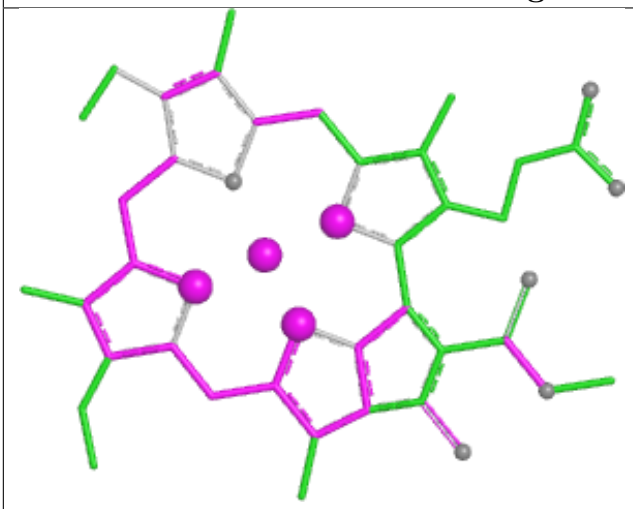
Ligand CLA H 837	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA B 802	
	
Bond lengths	Bond angles
	
Torsions	Rings

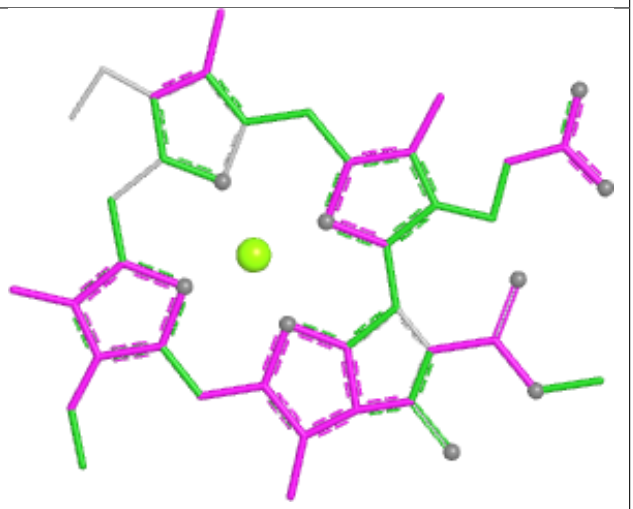
Ligand CLA A 841	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA H 807	
	
Bond lengths	Bond angles
	
Torsions	Rings

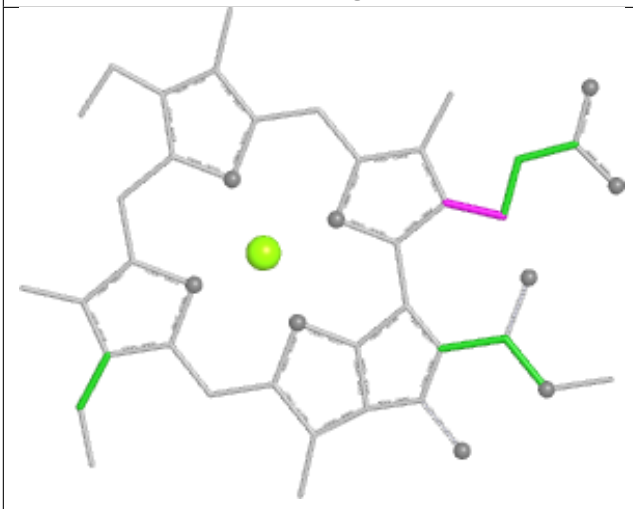
Ligand CLA b 811



Bond lengths



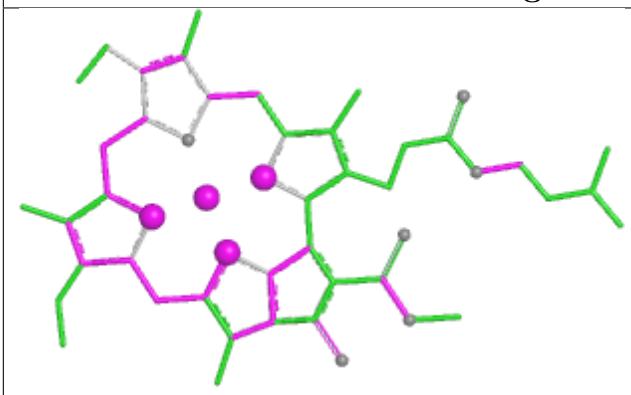
Bond angles



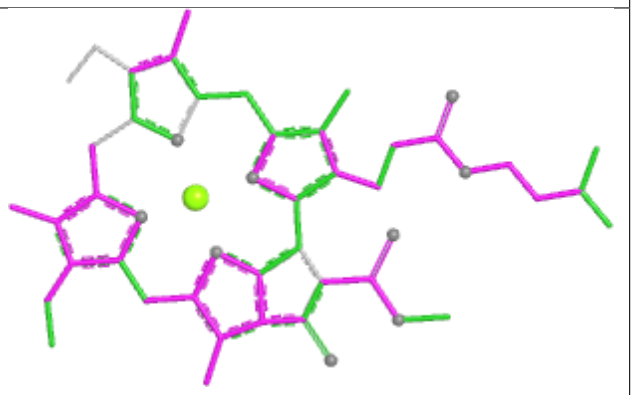
Torsions

Rings

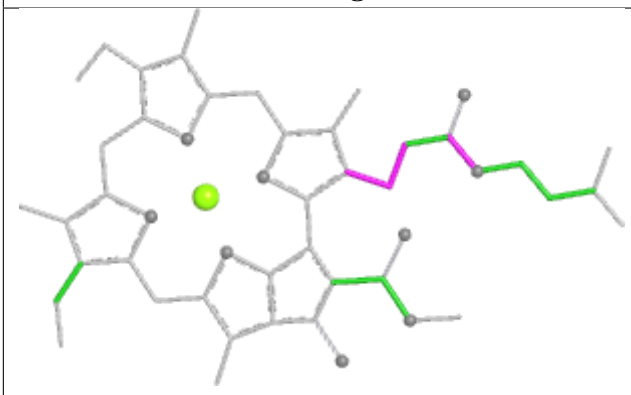
Ligand CLA A 813



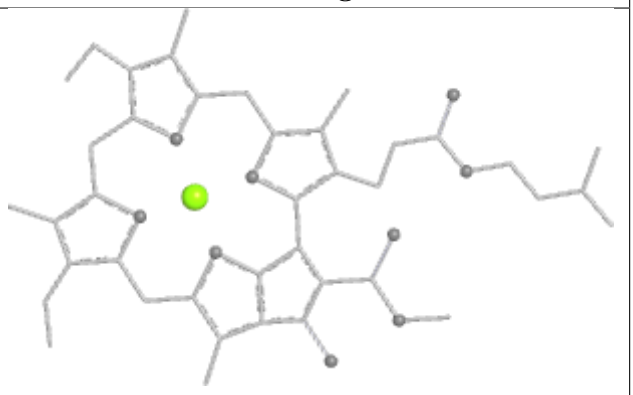
Bond lengths



Bond angles

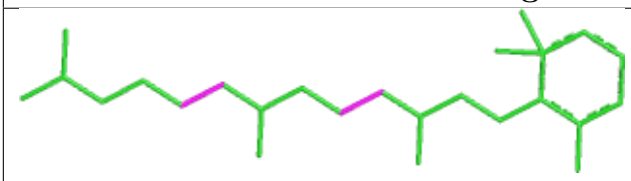


Torsions

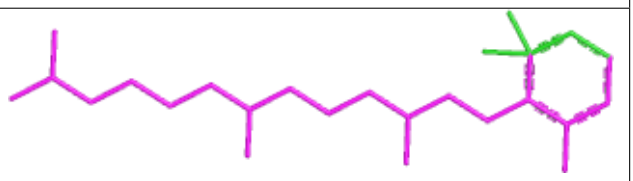


Rings

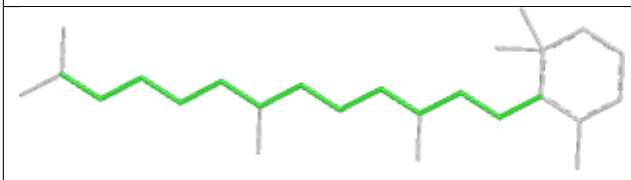
Ligand BCR H 845



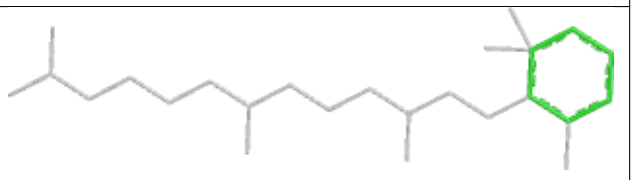
Bond lengths



Bond angles

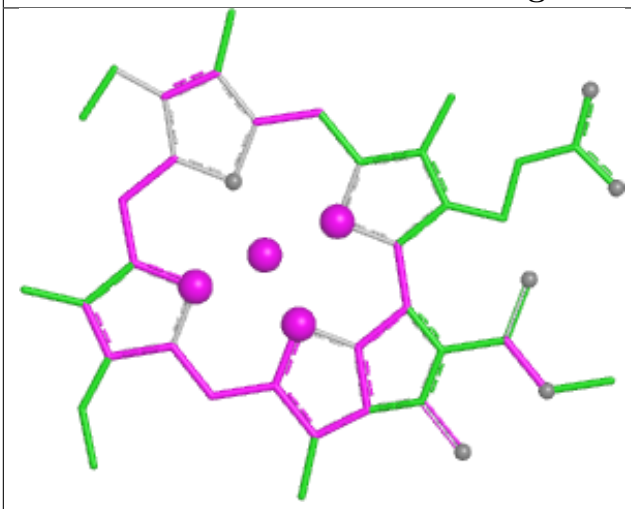


Torsions



Rings

Ligand CLA J 101



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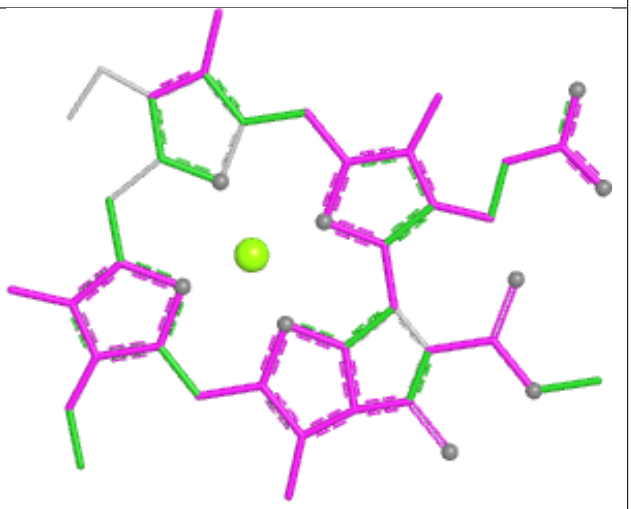
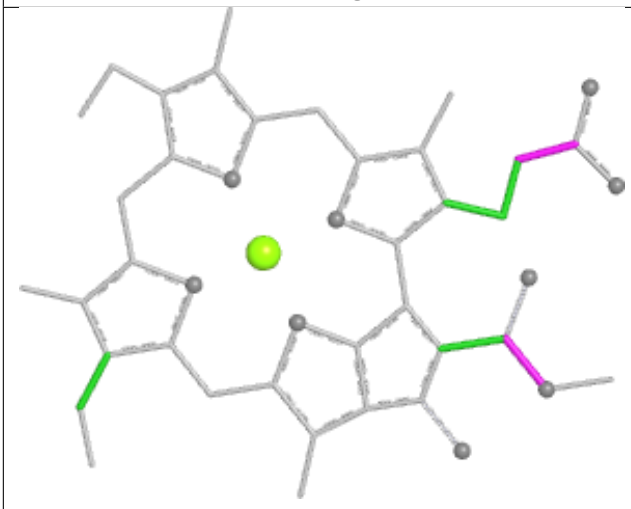


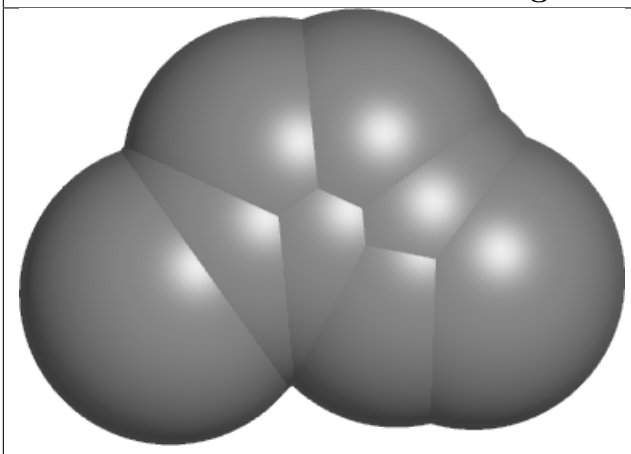
Bond angles



Torsions

Rings

Ligand SF4 N 102



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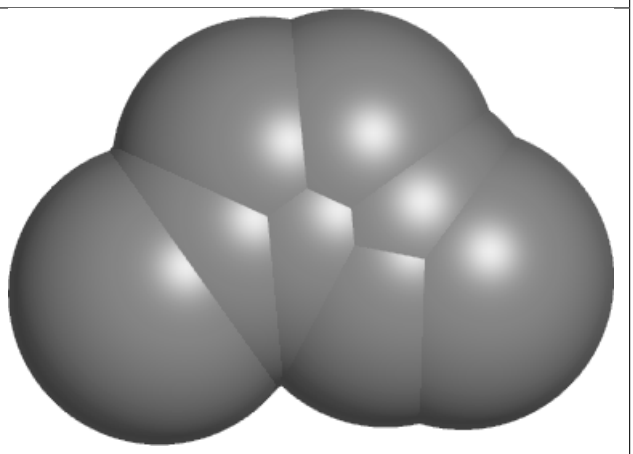
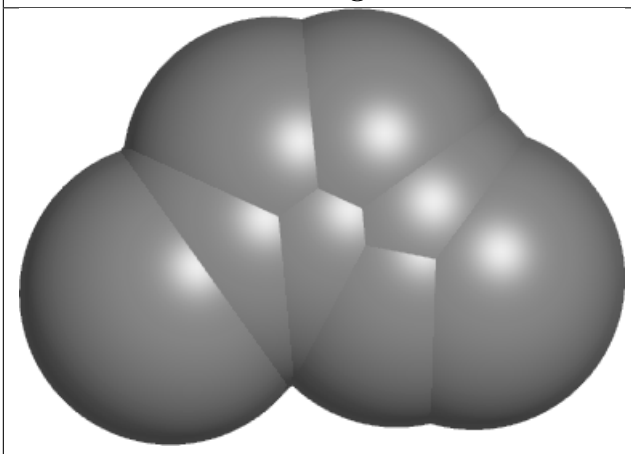
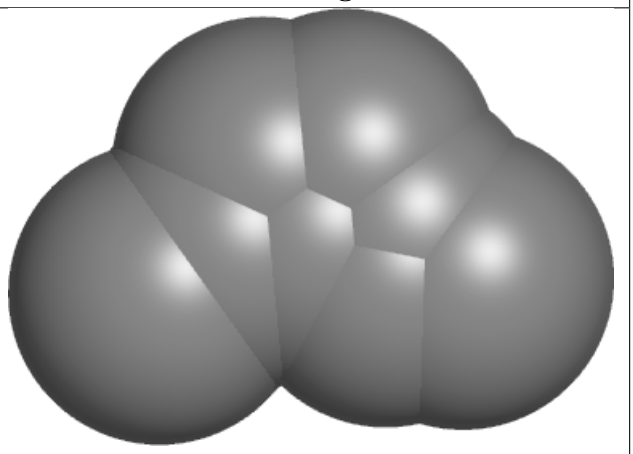


Bond angles

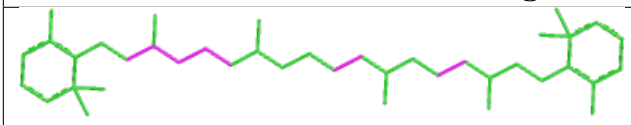


Torsions



Rings

Ligand BCR H 847



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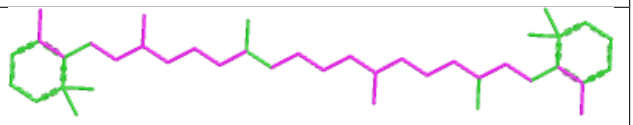
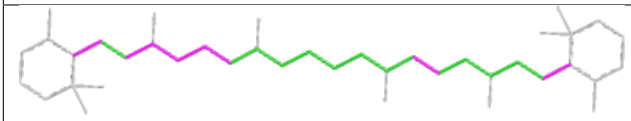


Bond angles



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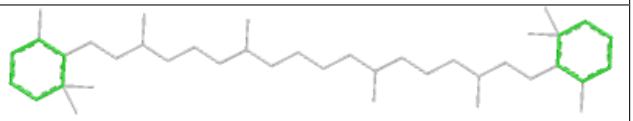
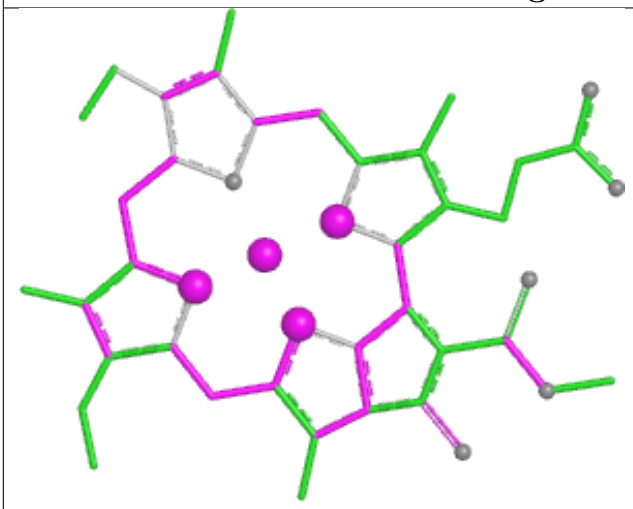


Rings

Ligand CLA a 822



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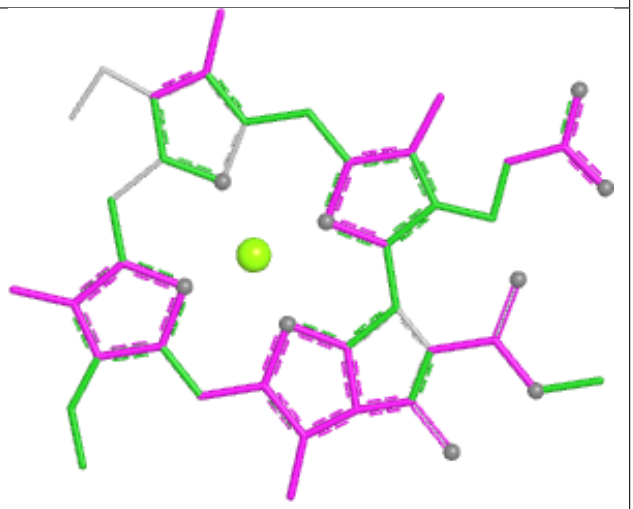
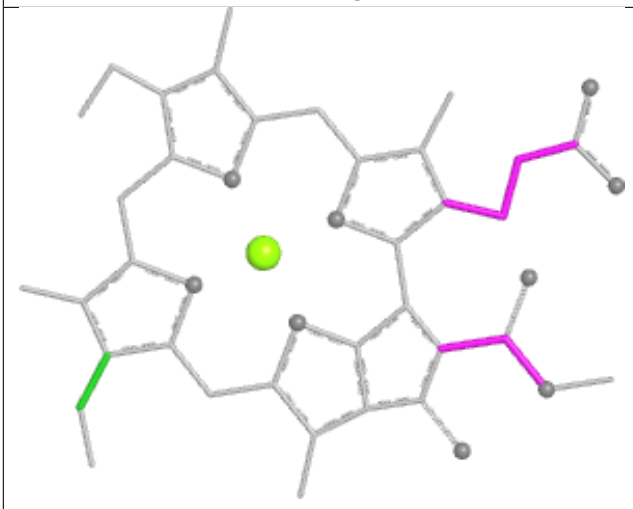


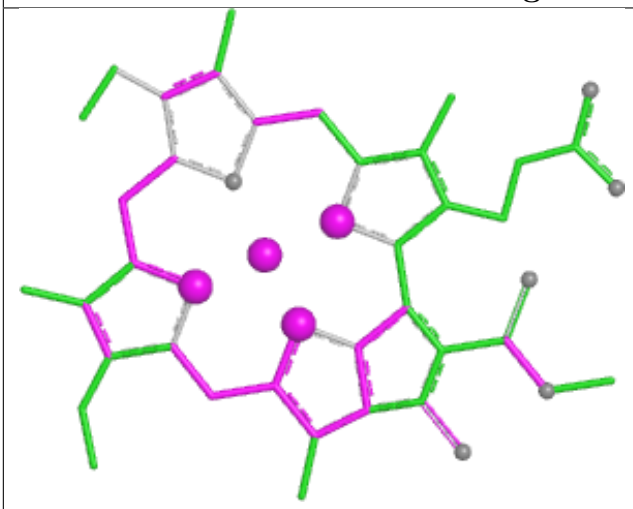
Bond angles



Torsions

Rings

Ligand CLA G 806



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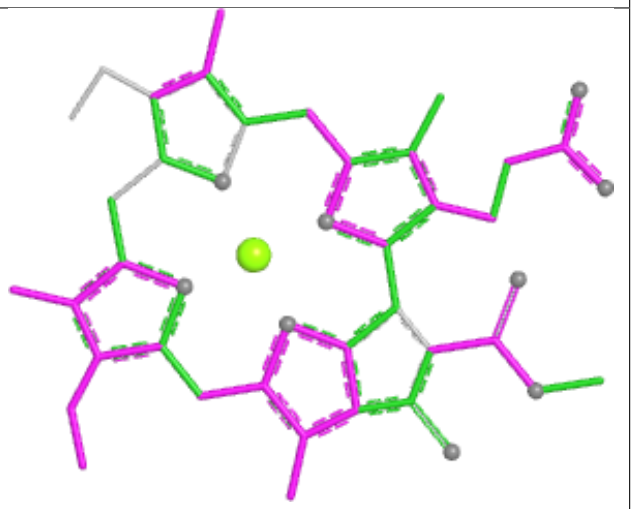
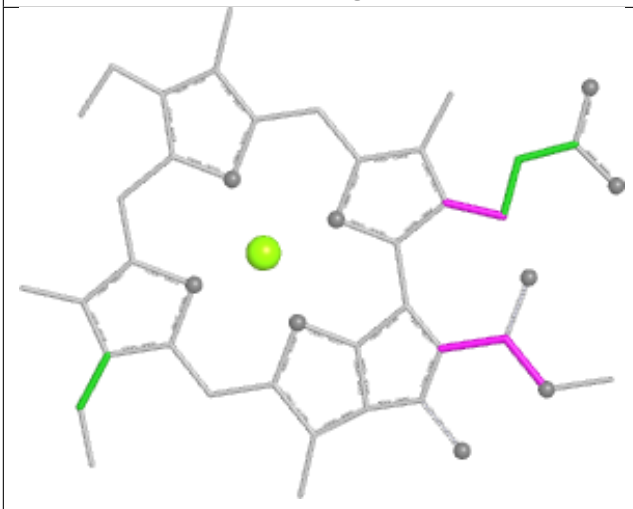


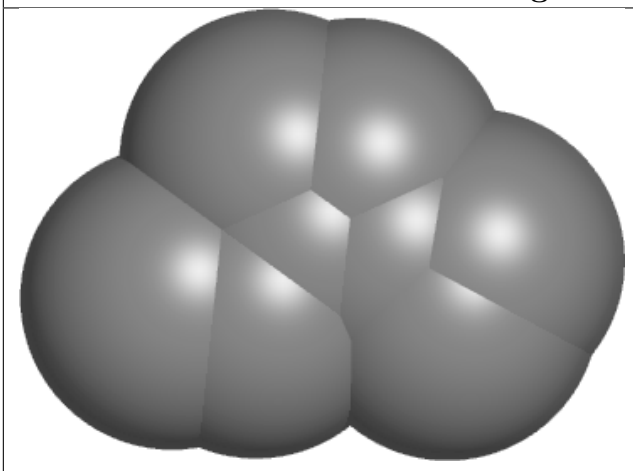
Bond angles



Torsions

Rings

Ligand SF4 A 847



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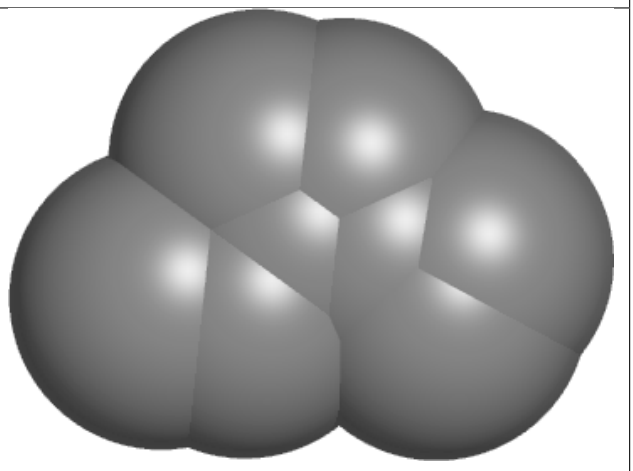
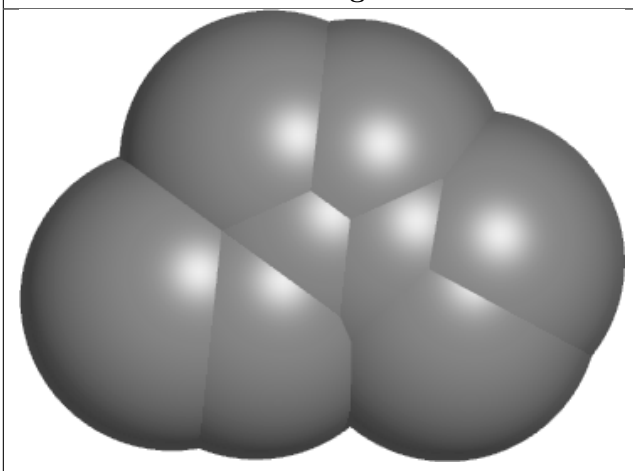


Bond angles



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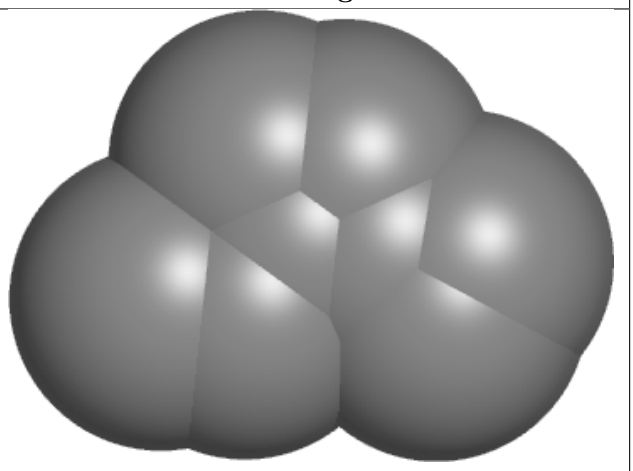
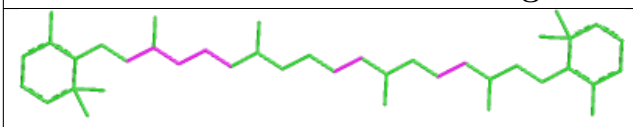


Rings

Ligand BCR A 852



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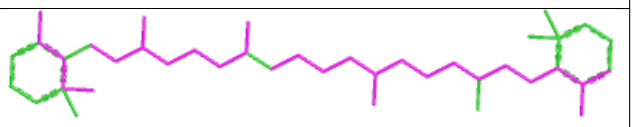
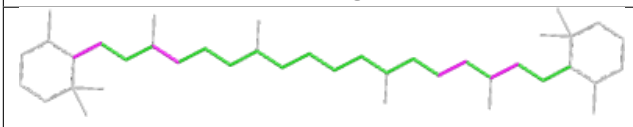


Bond angles



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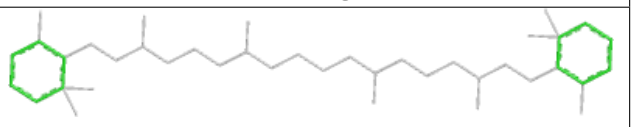
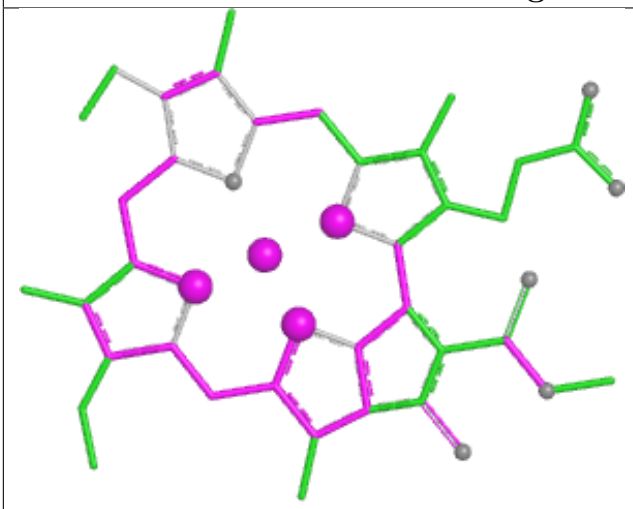


Rings

Ligand CLA b 822



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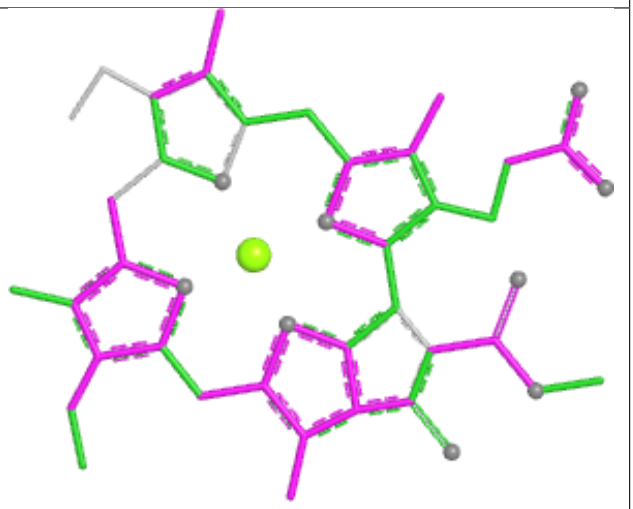

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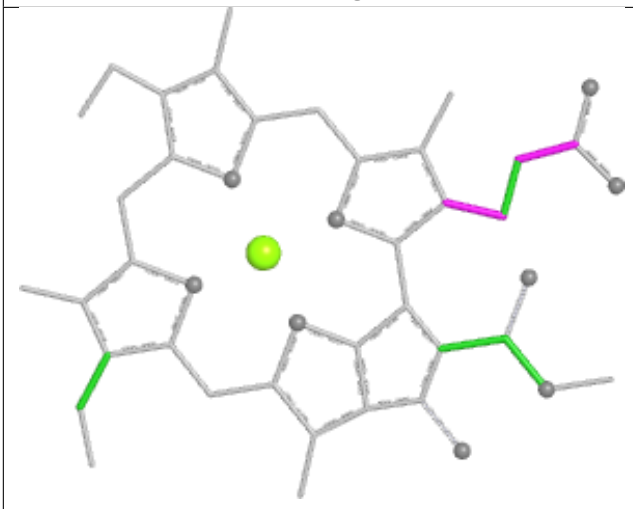
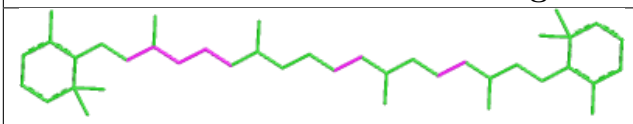


Torsions

Rings

Ligand BCR f 203



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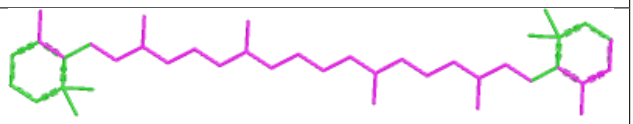
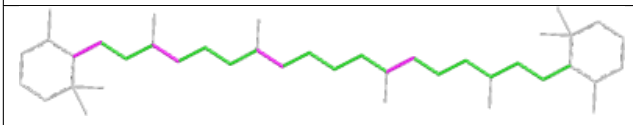


Bond angles



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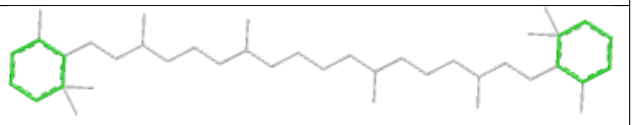
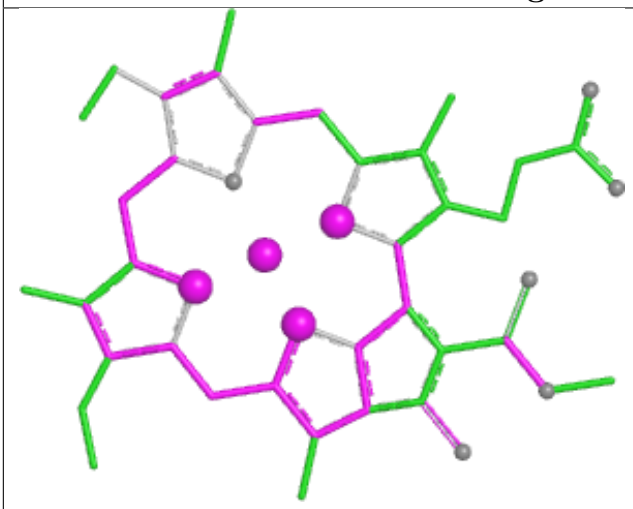


Rings

Ligand CLA S 101



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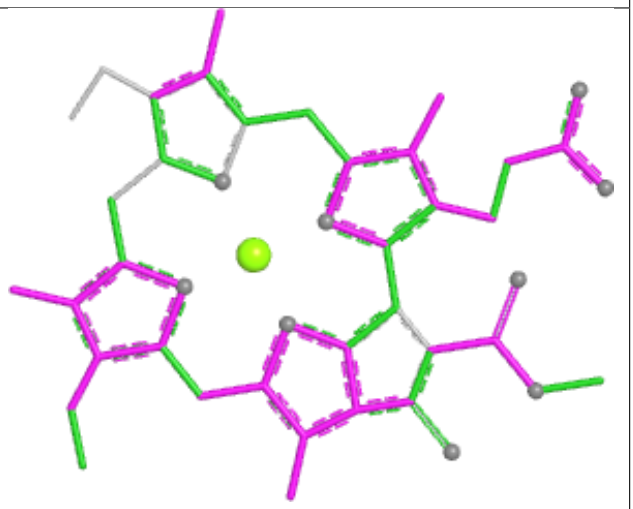

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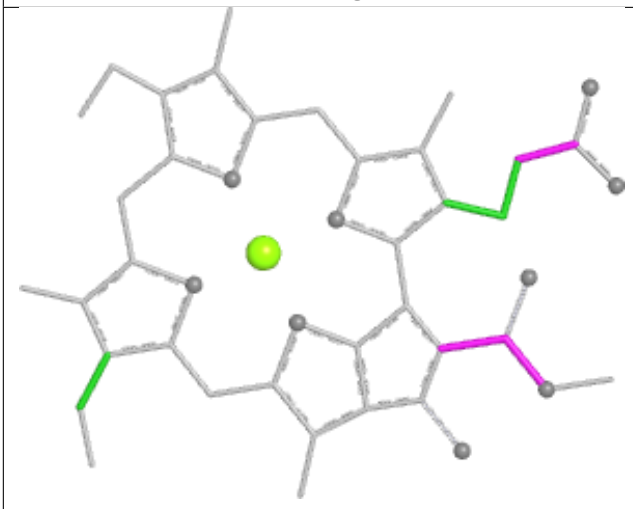
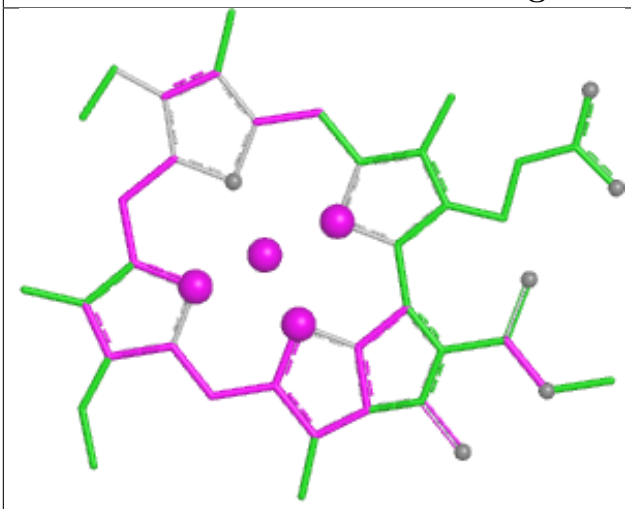


Torsions

Rings

Ligand CLA a 836



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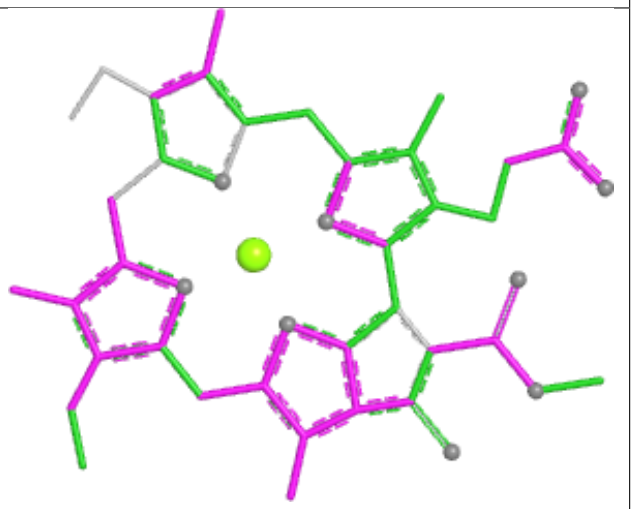

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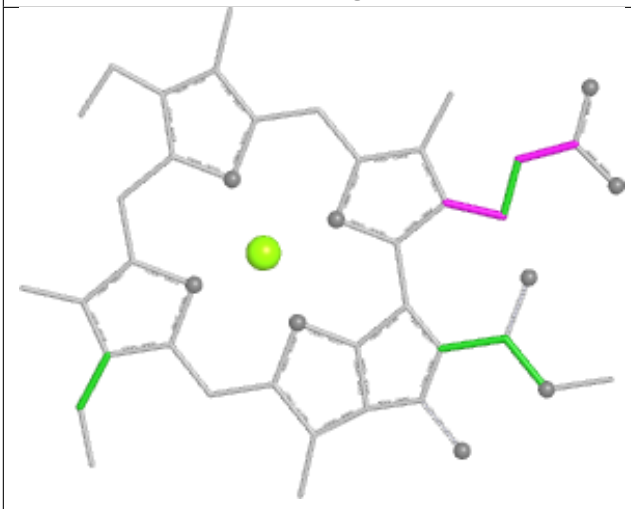
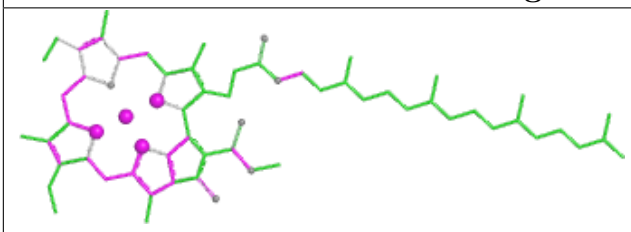


Torsions

Rings

Ligand CLA B 806



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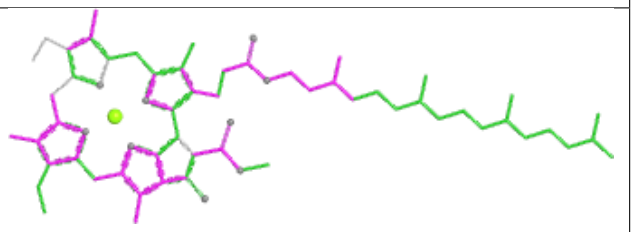
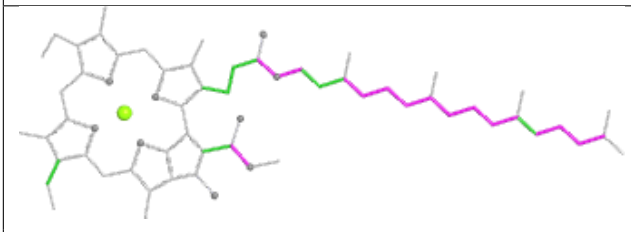
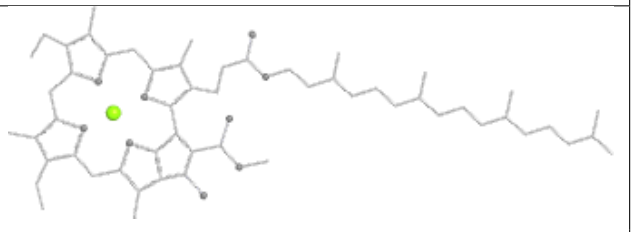


Bond angles

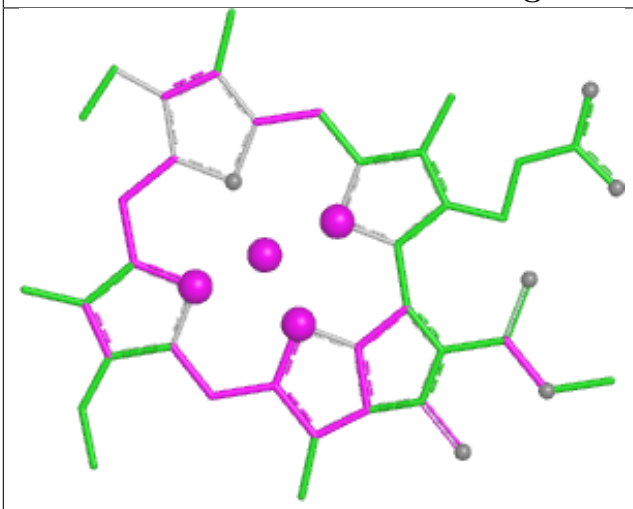


Torsions



Rings

Ligand CLA A 842



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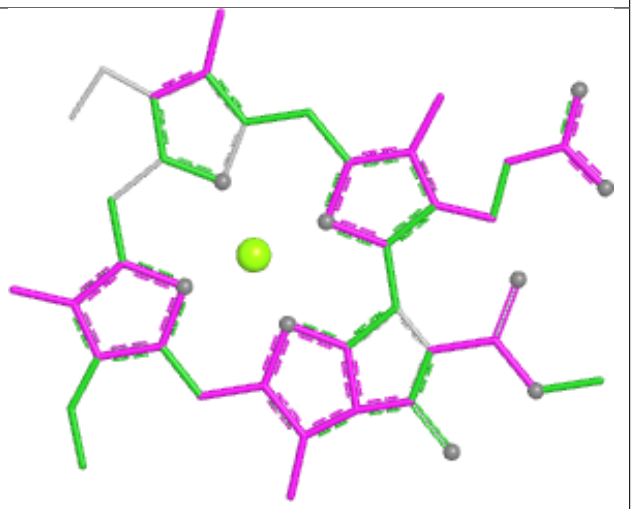
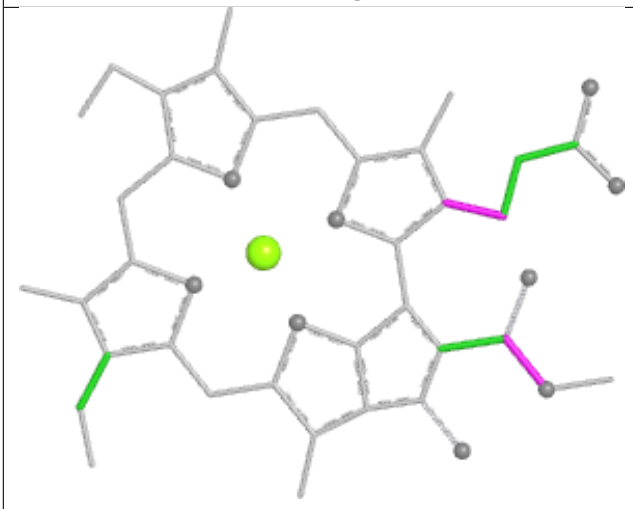


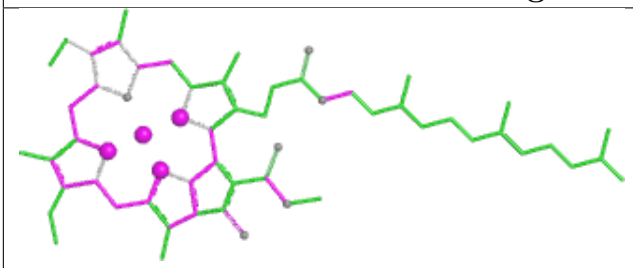
Bond angles



Torsions

Rings

Ligand CLA b 836



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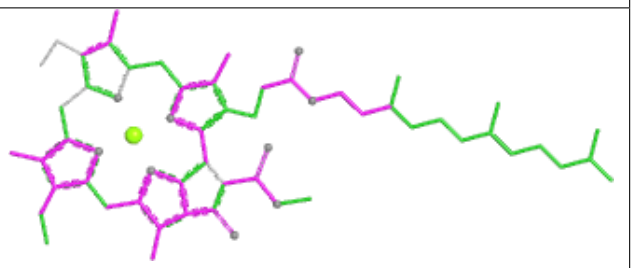
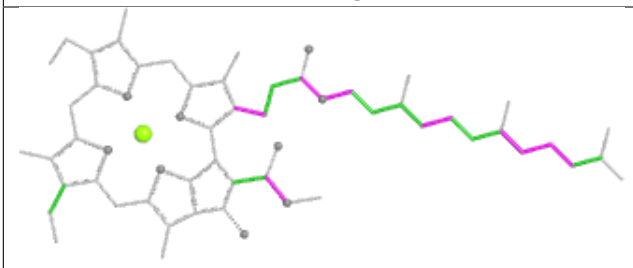
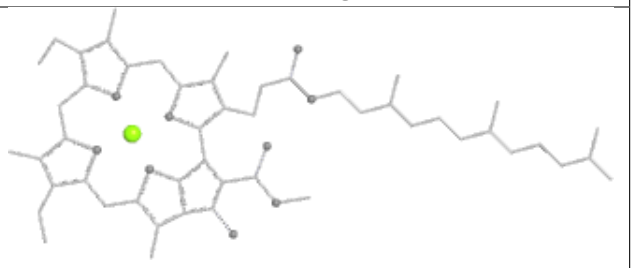


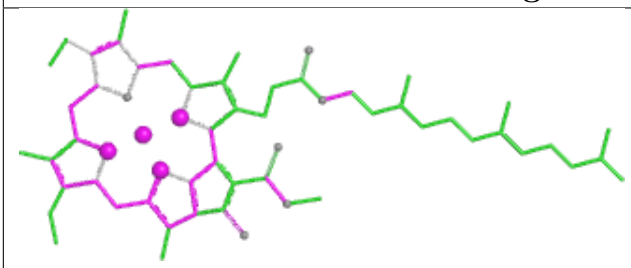
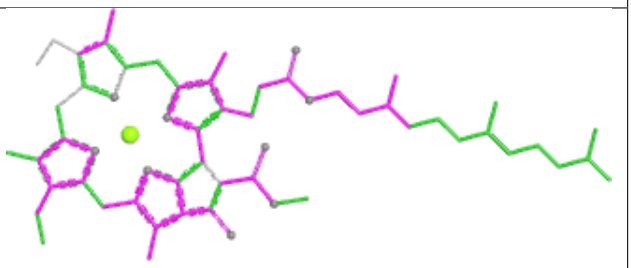
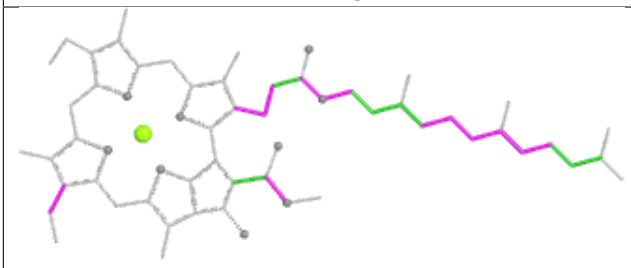
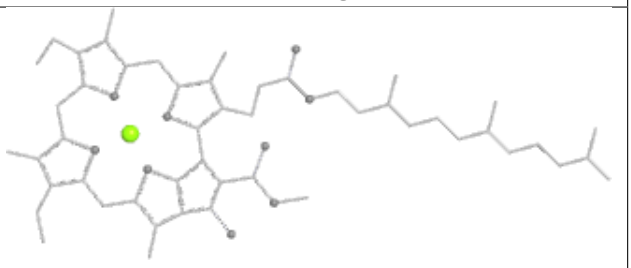
Bond angles

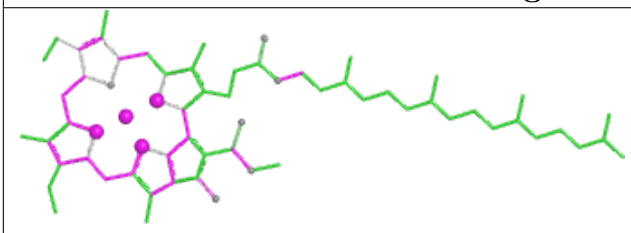
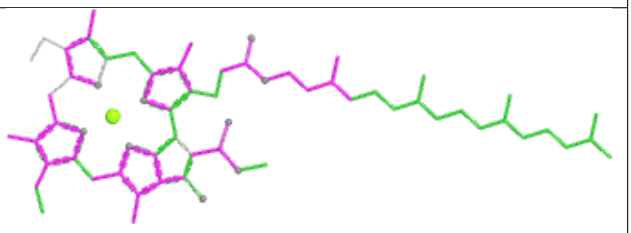
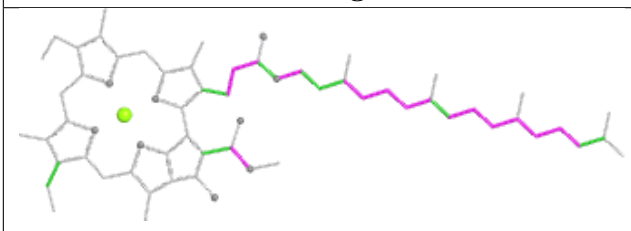
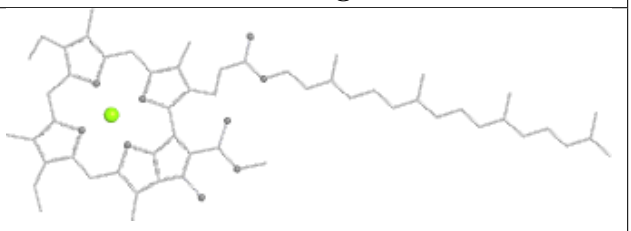


Torsions

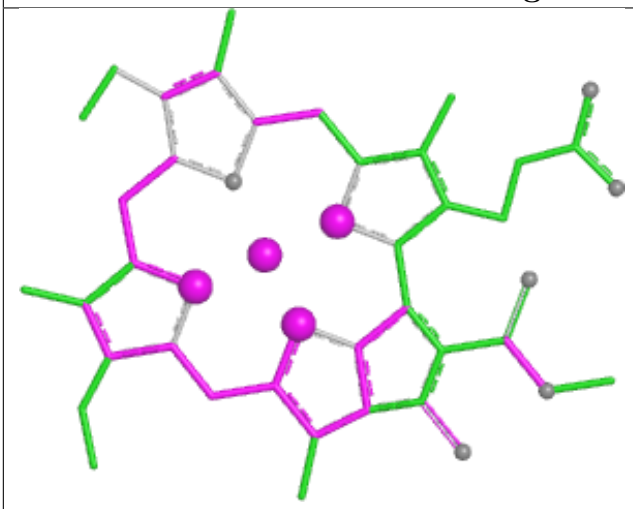


Rings

Ligand CLA G 814	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA A 826	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA H 838



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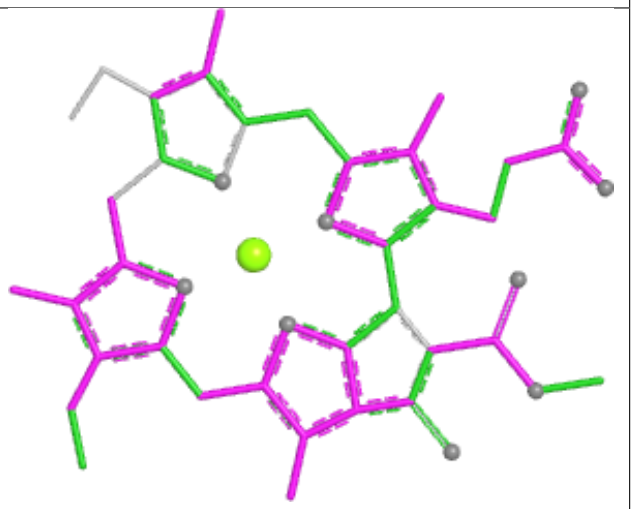
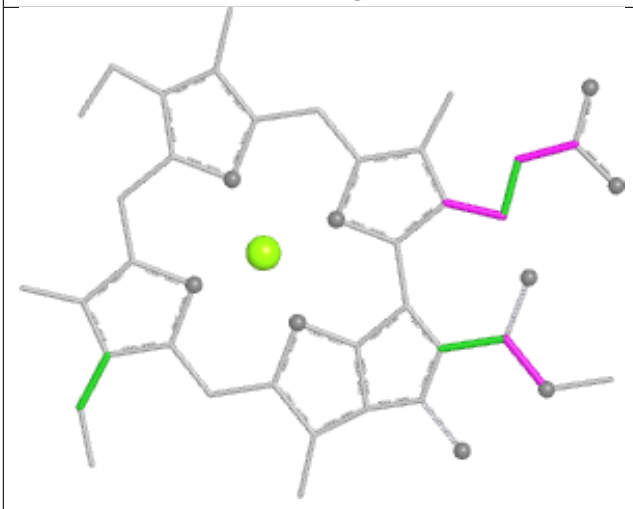


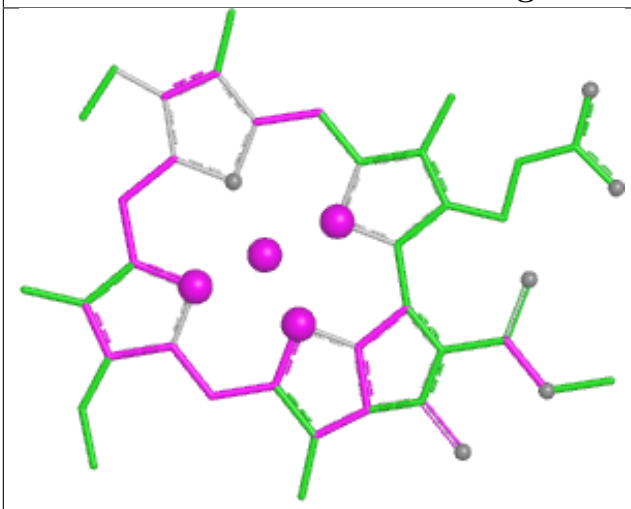
Bond angles



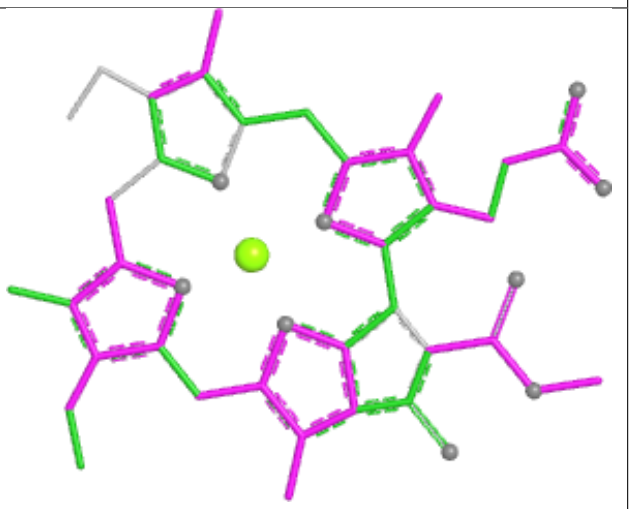
Torsions

Rings

Ligand CLA F 1301



Bond lengths



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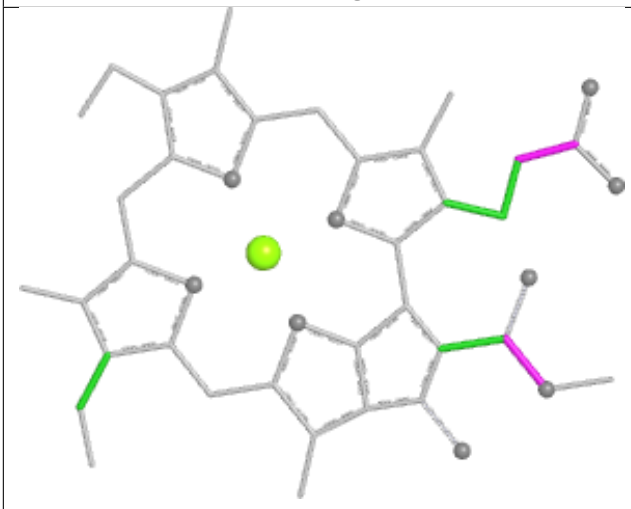
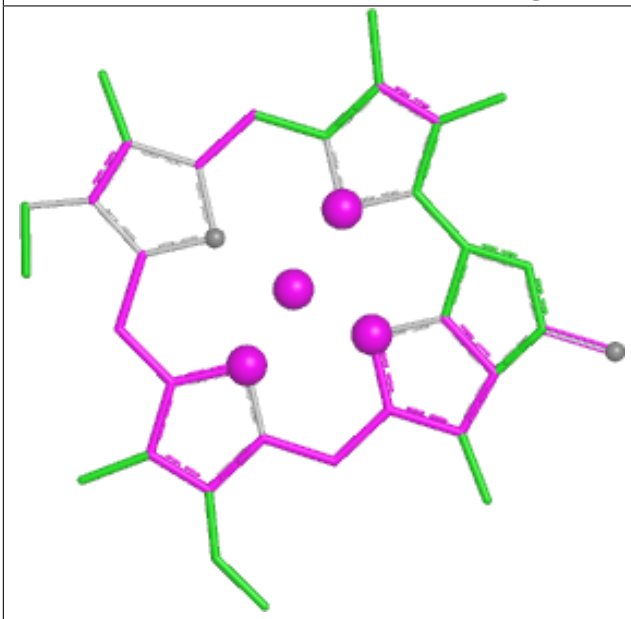


Torsions

Rings

Ligand CLA S 102



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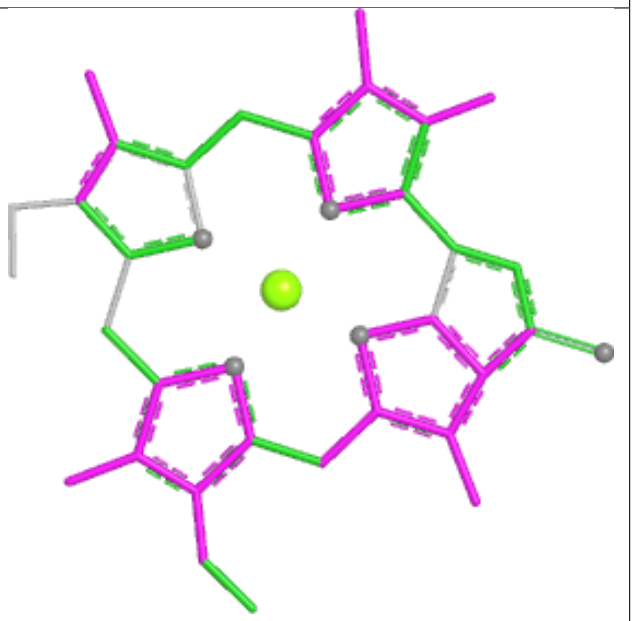
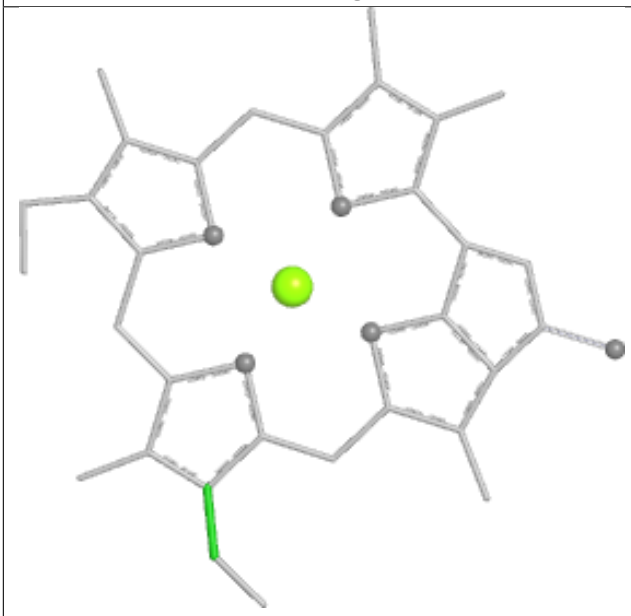


Bond angles



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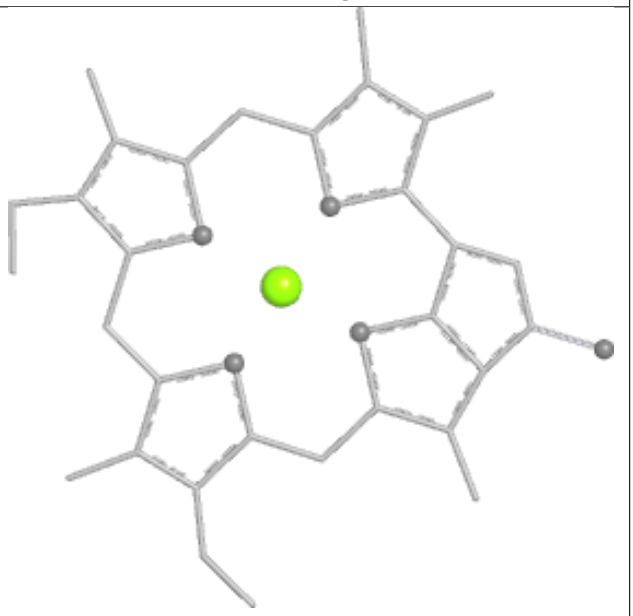
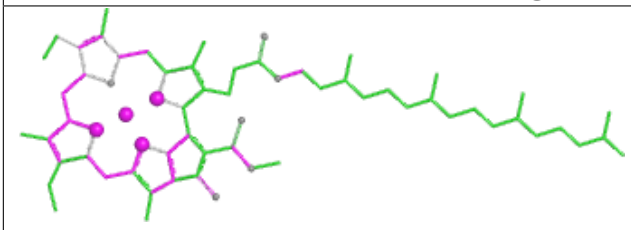


Rings

Ligand CLA a 855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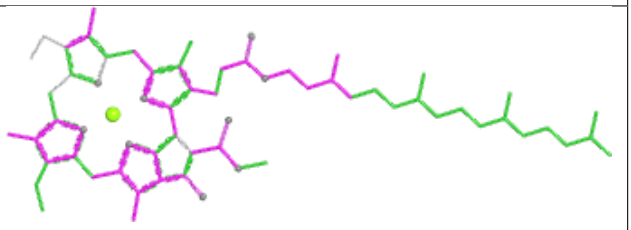
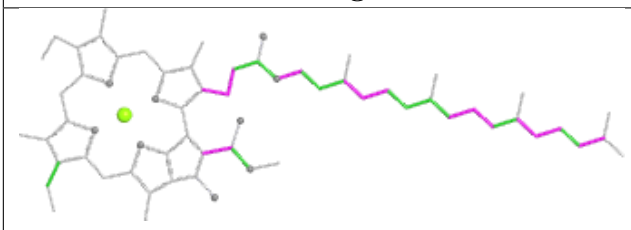

Bond angles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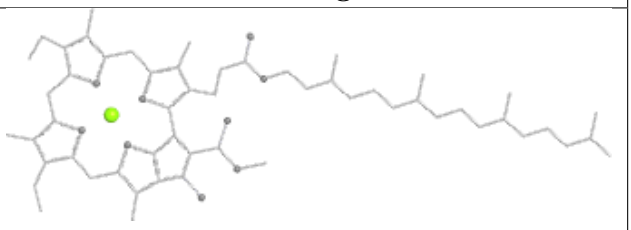
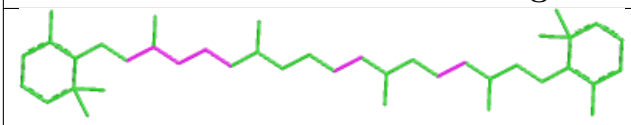

Rings

Ligand BCR i 102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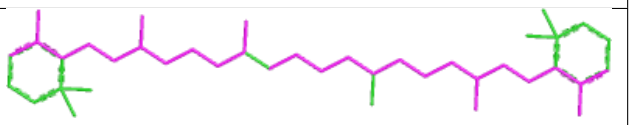
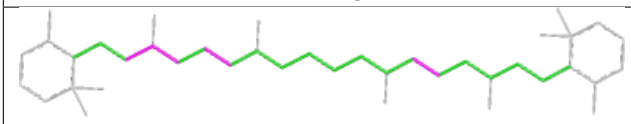
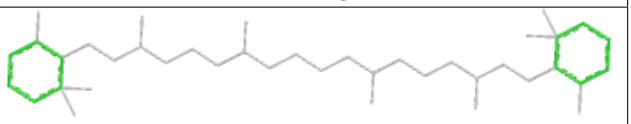
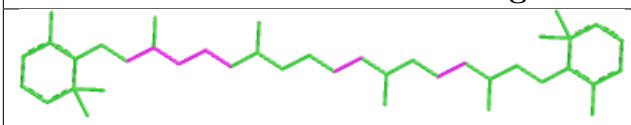
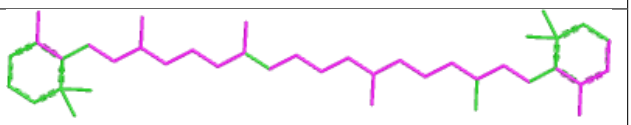

Bond angles

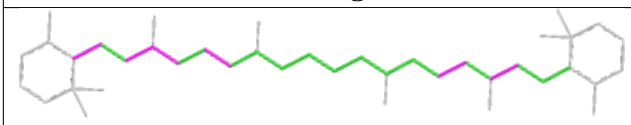

Torsions


Rings

Ligand BCR M 1602


Bond lengths


Bond angles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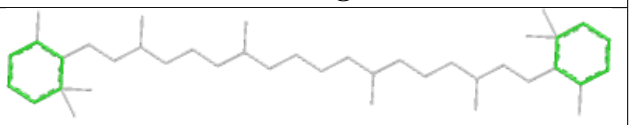
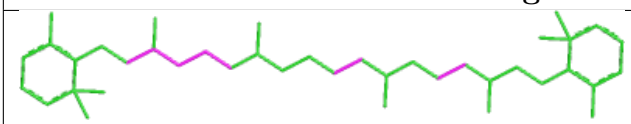
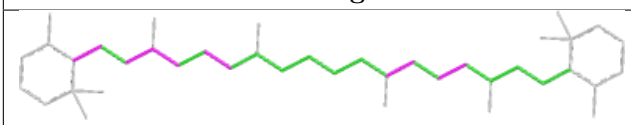

Rings

Ligand BCR B 847


Bond lengths


Bond angles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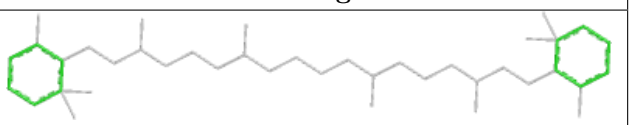
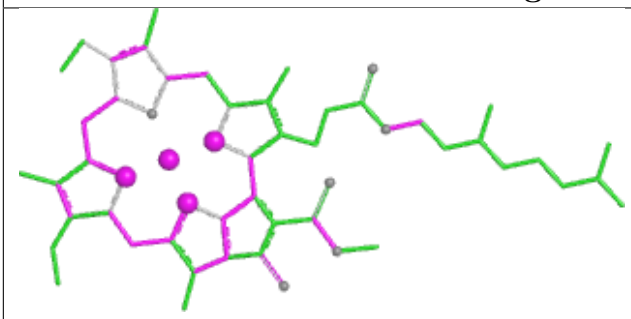
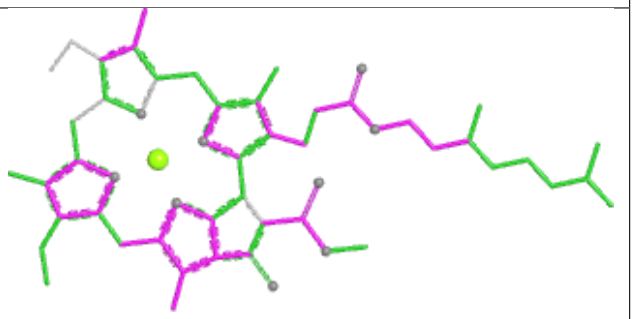

Rings

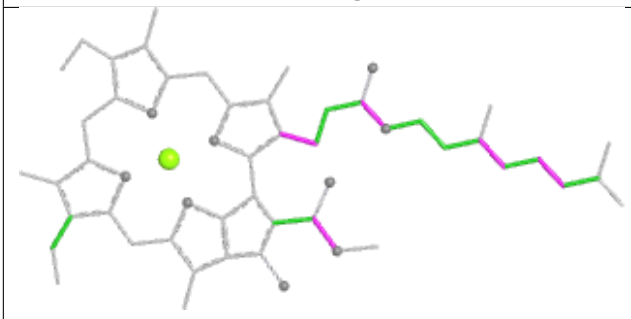
Ligand CLA B 813



Bond lengths



Bond angles



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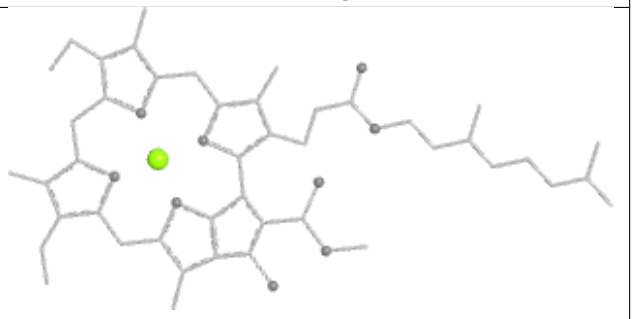
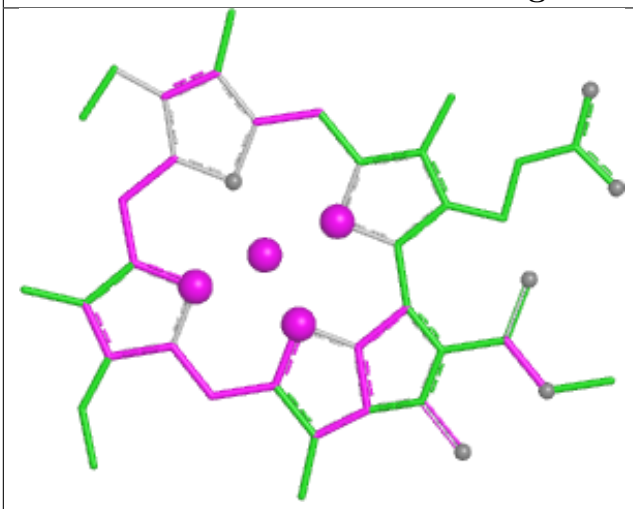
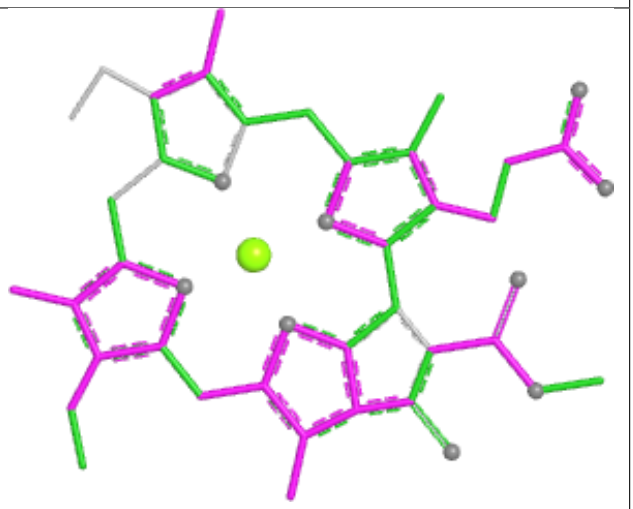


Rings

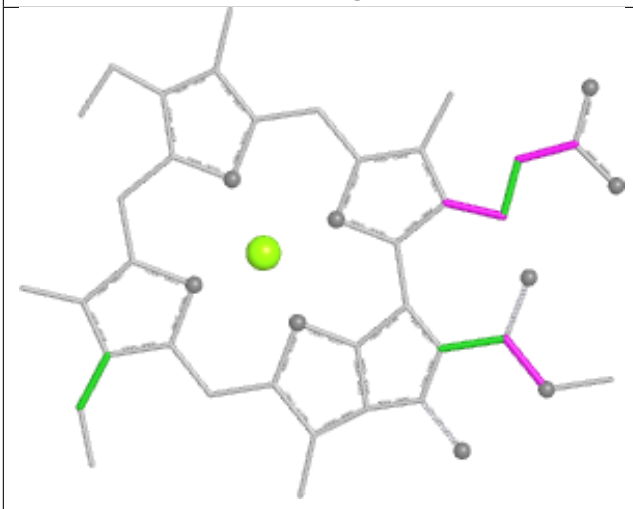
Ligand CLA a 835



Bond lengths



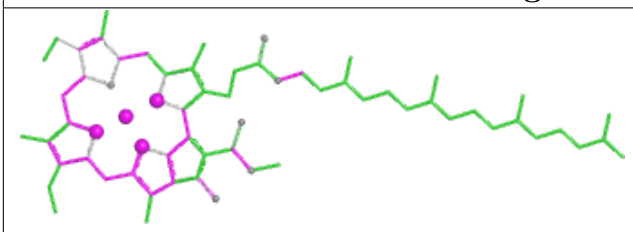
Bond angles



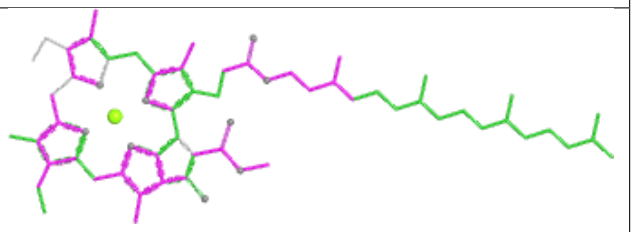
Torsions

Rings

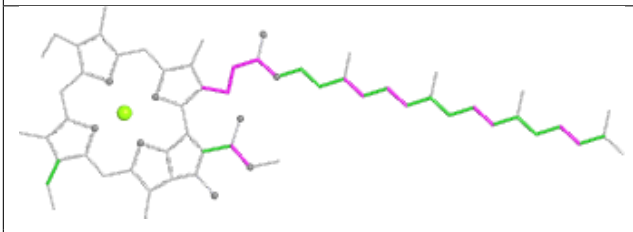
Ligand CLA A 812



Bond lengths



Bond angles



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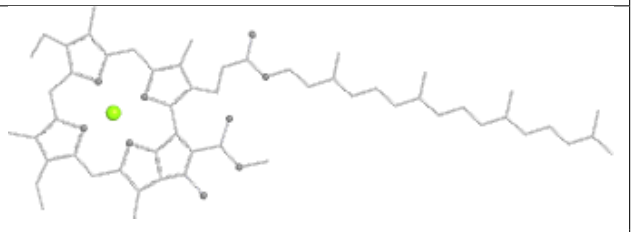
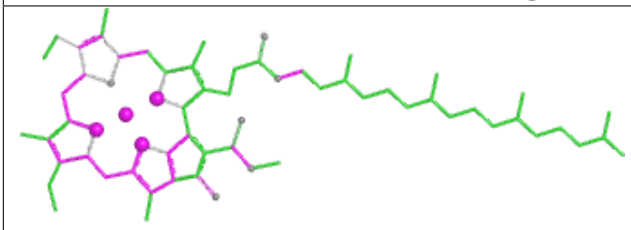
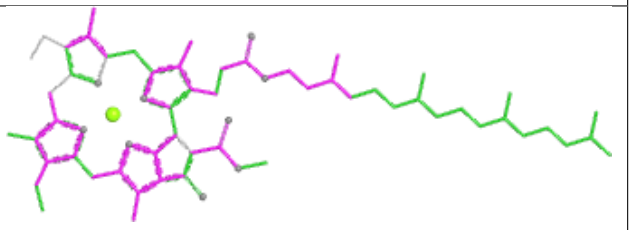
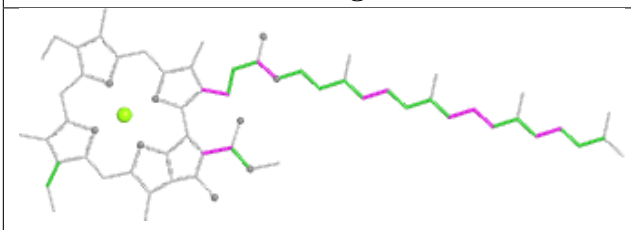
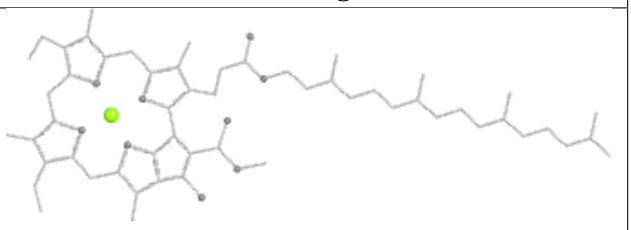
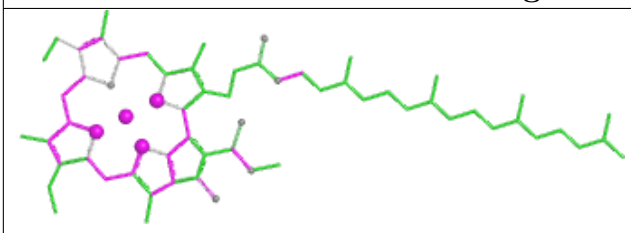
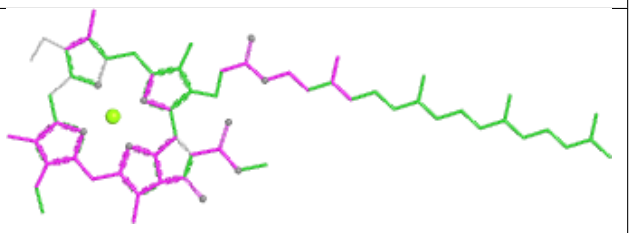
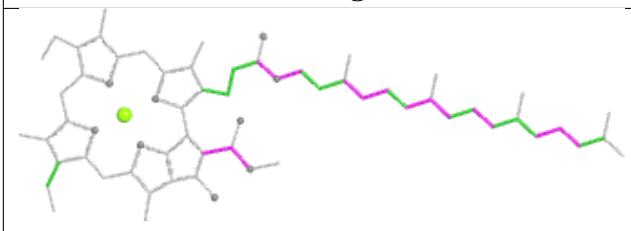
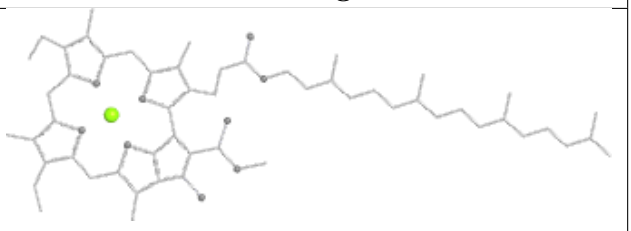
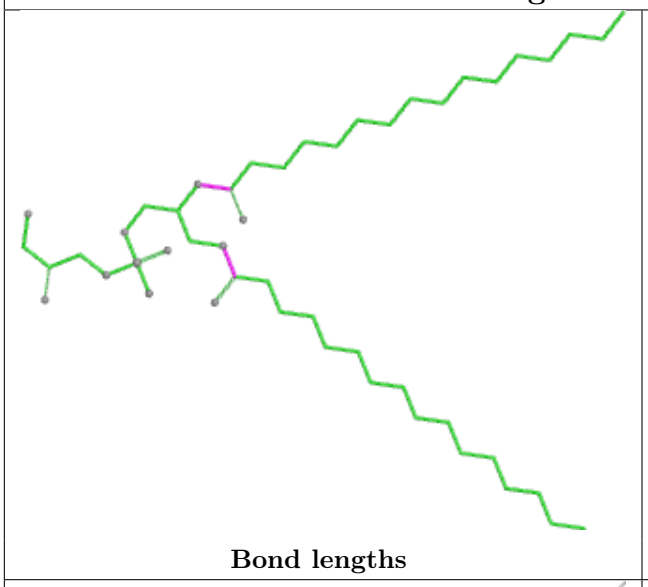


Rings

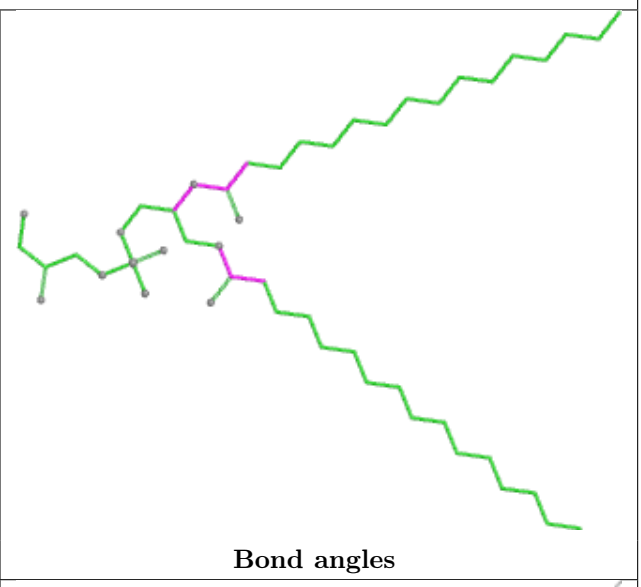
Ligand CLA H 828	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA G 828	
	
Bond lengths	Bond angles
	
Torsions	Rings

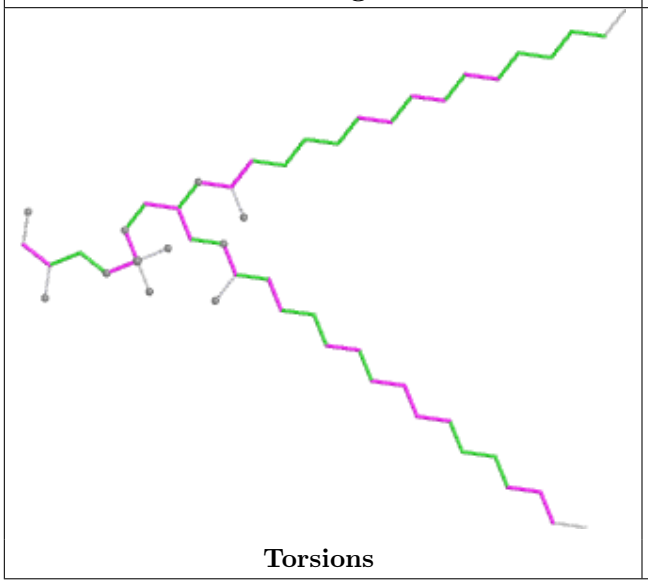
Ligand LHG a 853



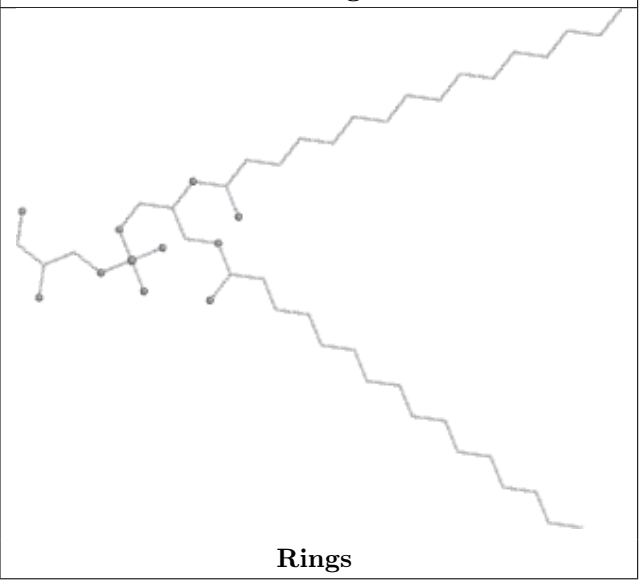
Bond lengths



Bond angles

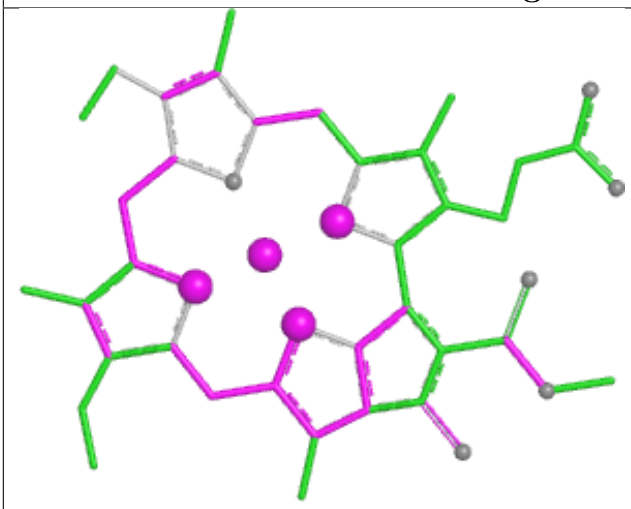


Torsions

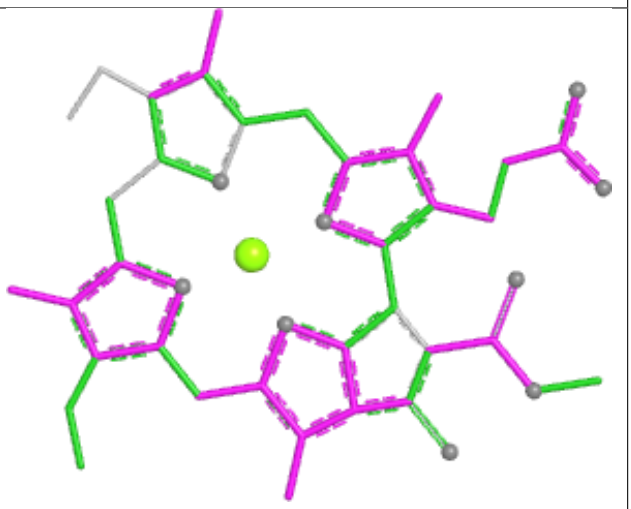


Rings

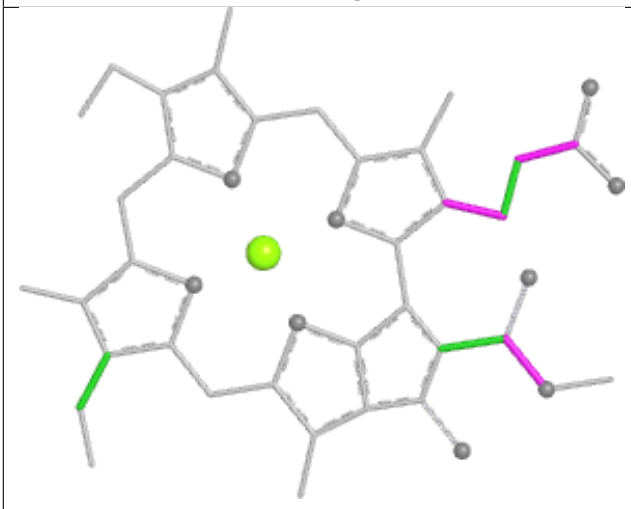
Ligand CLA H 815



Bond lengths



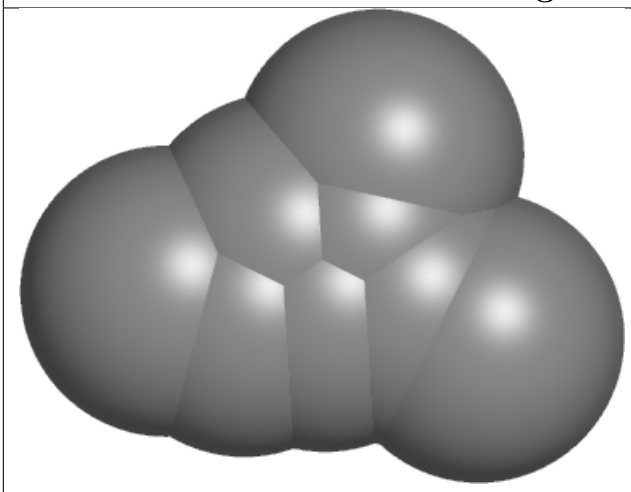
Bond angles



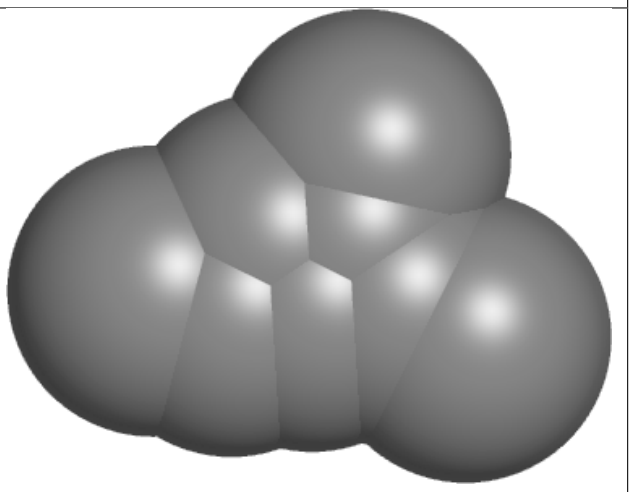
Torsions

Rings

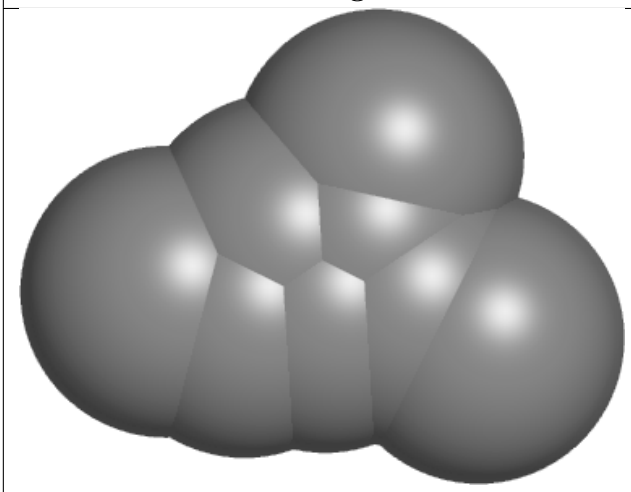
Ligand SF4 c 102



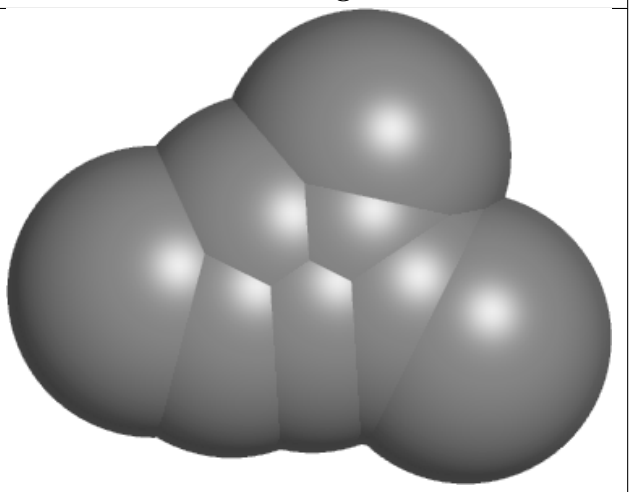
Bond lengths



Bond angles

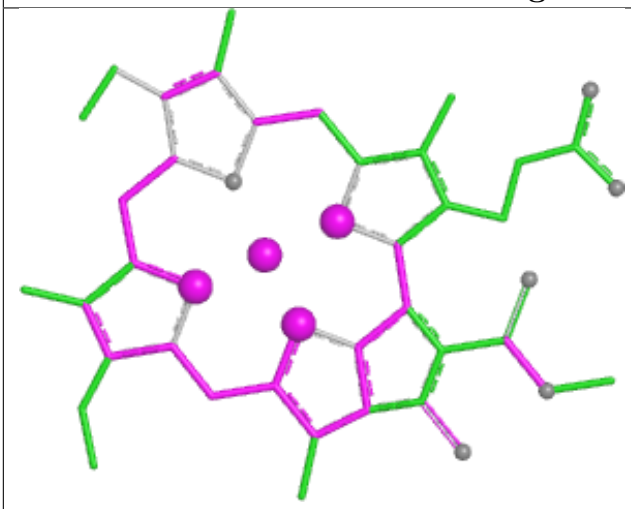


Torsions



Rings

Ligand CLA a 814



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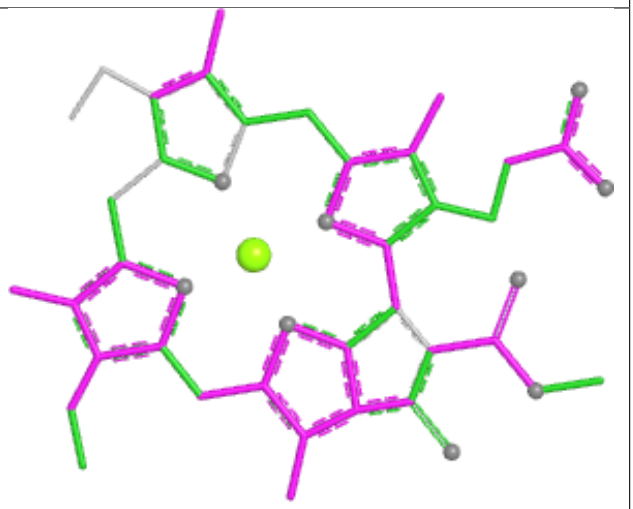
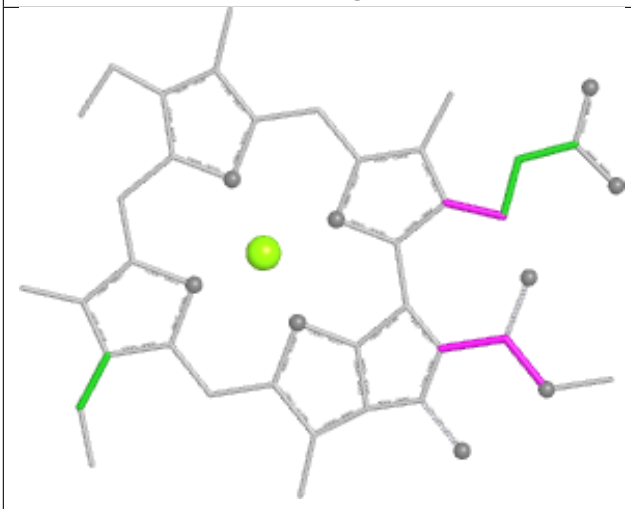


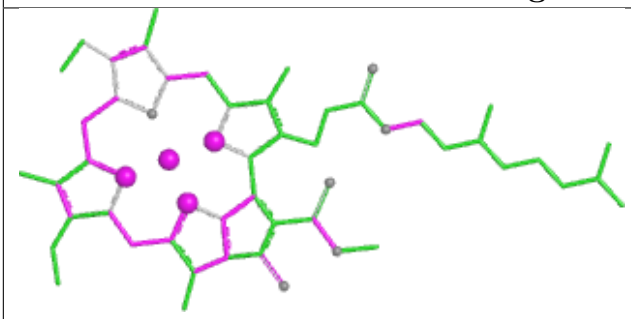
Bond angles



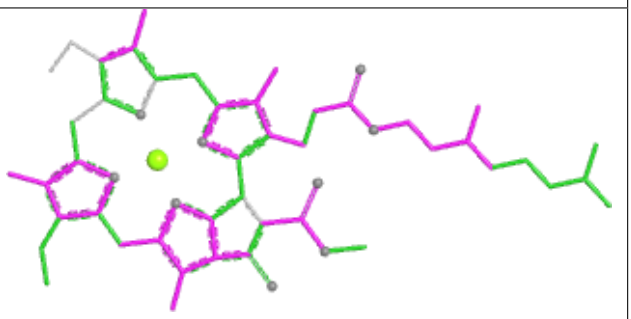
Torsions

Rings

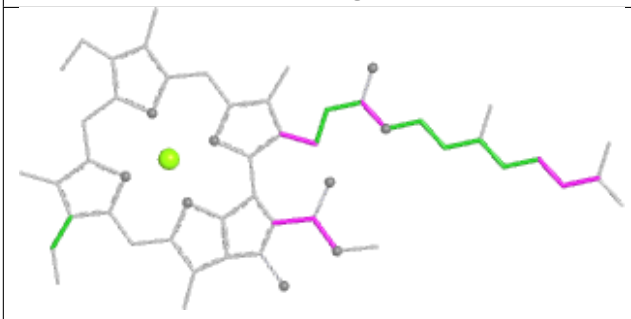
Ligand CLA a 803



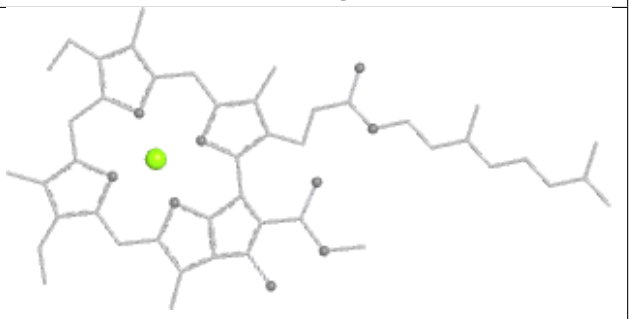
Bond lengths



Bond angles

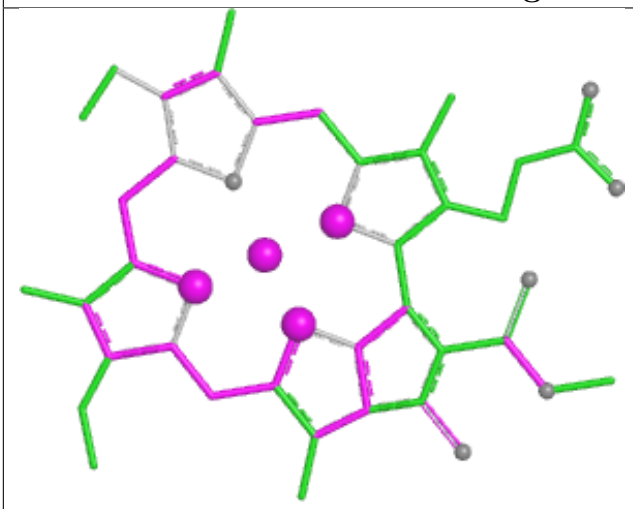


Torsions



Rings

Ligand CLA H 829



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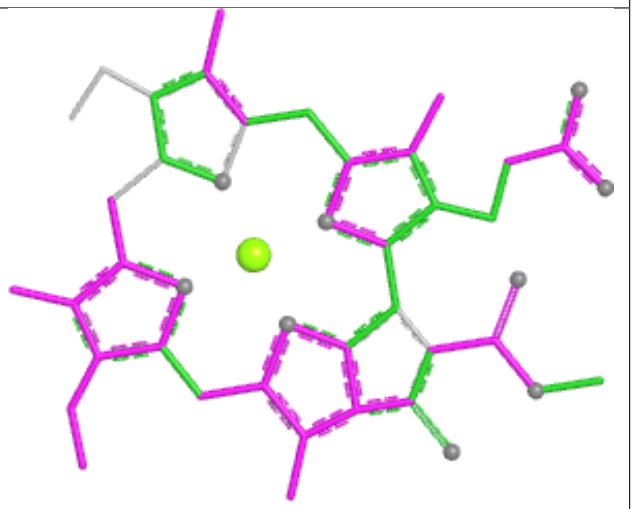
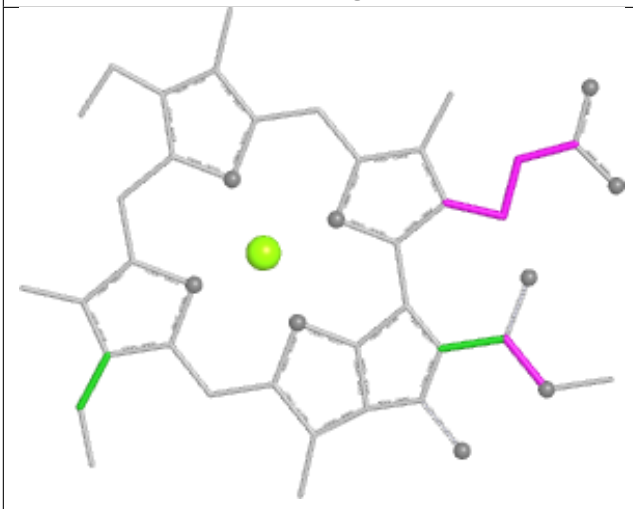


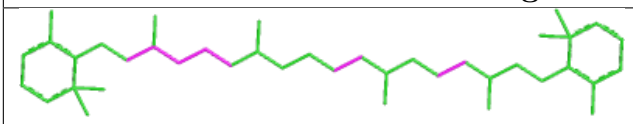
Bond angles



Torsions

Rings

Ligand BCR H 844



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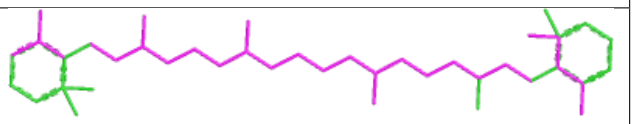
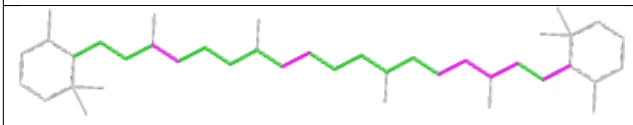
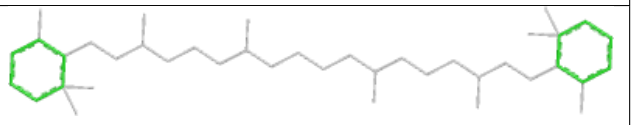


Bond angles

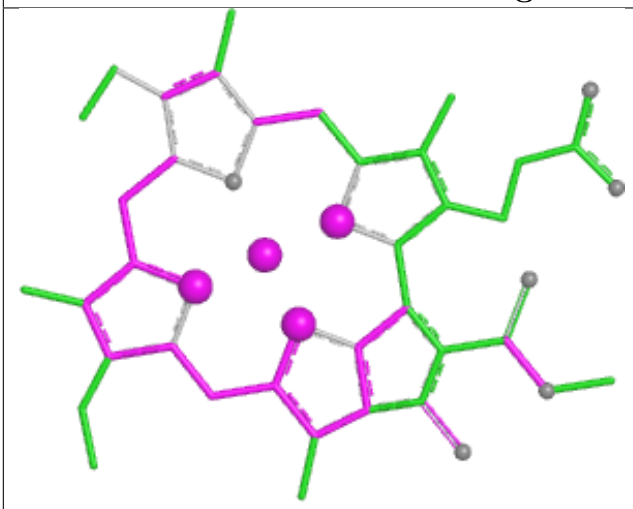


Torsions



Rings

Ligand CLA T 1401



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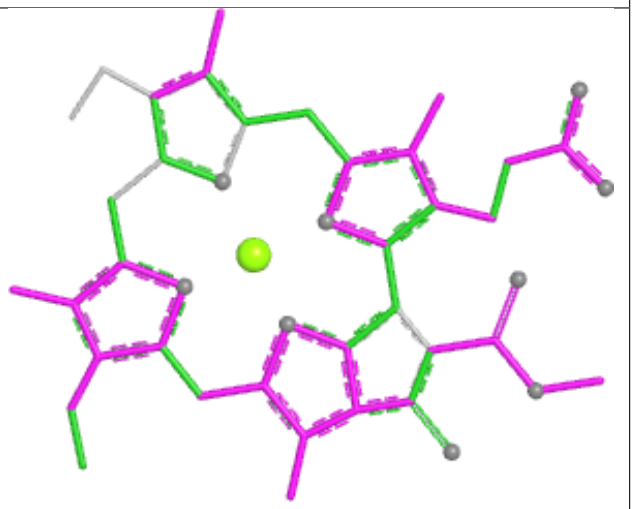

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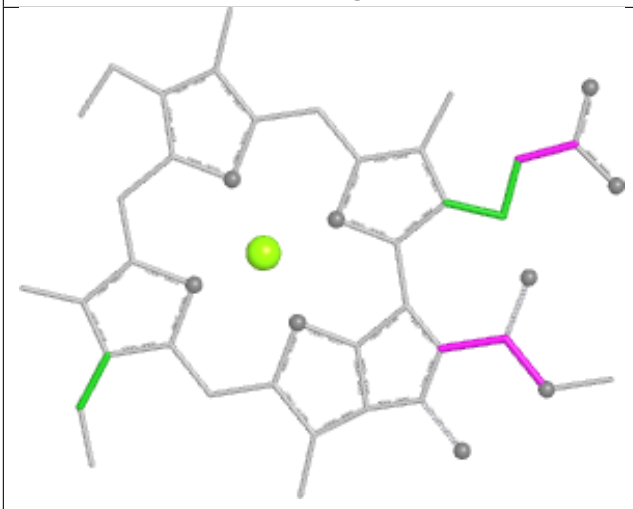
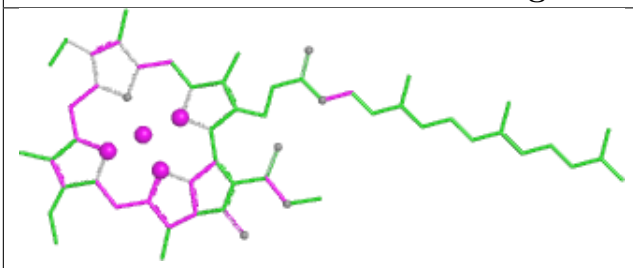


Torsions

Rings

Ligand CLA a 826



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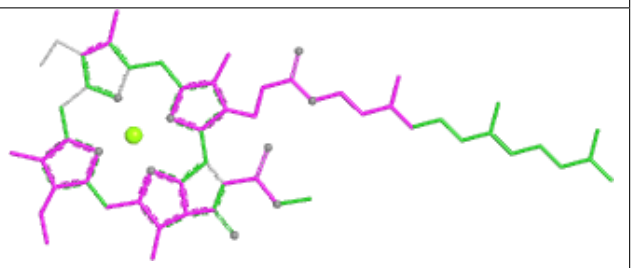
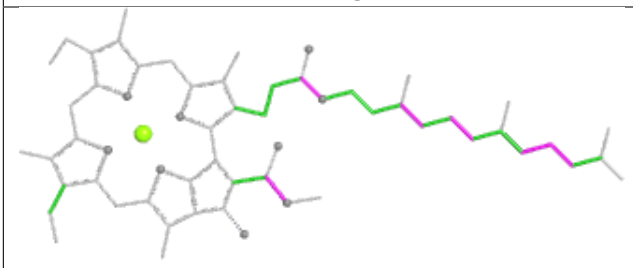
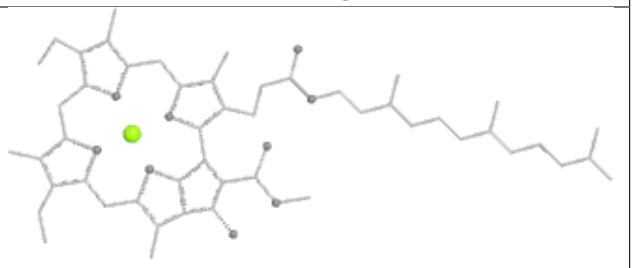


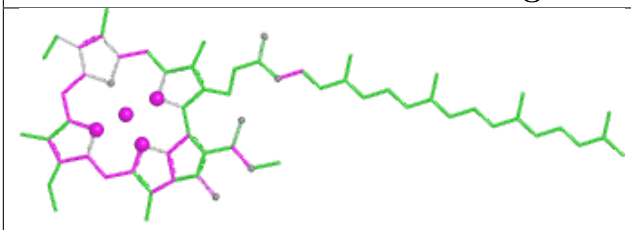
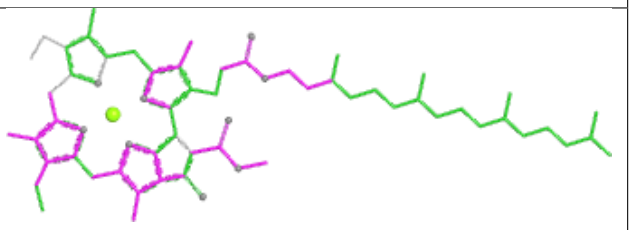
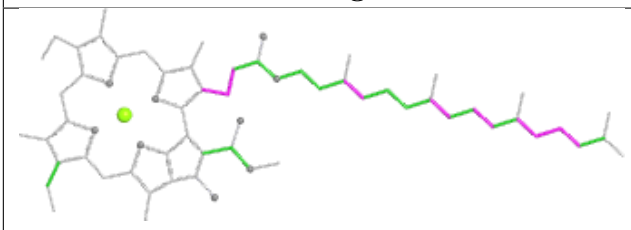
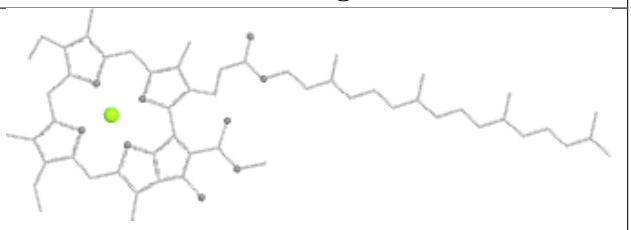
Bond angles

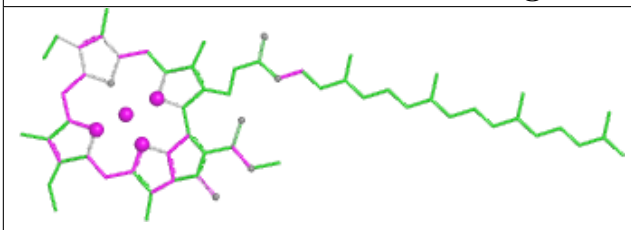
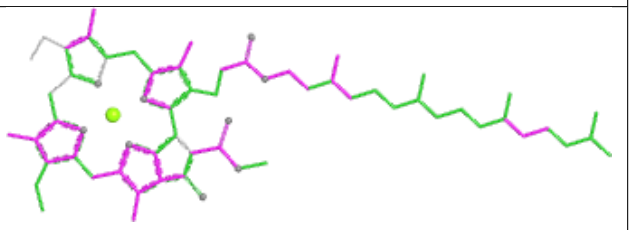
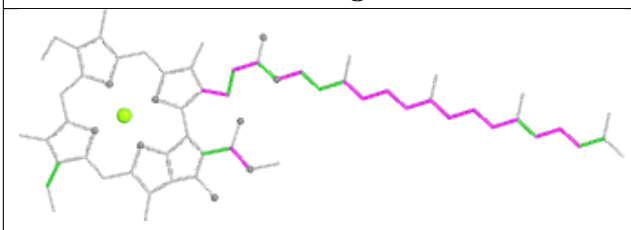
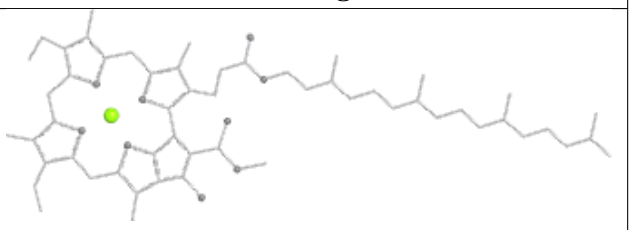


Torsions

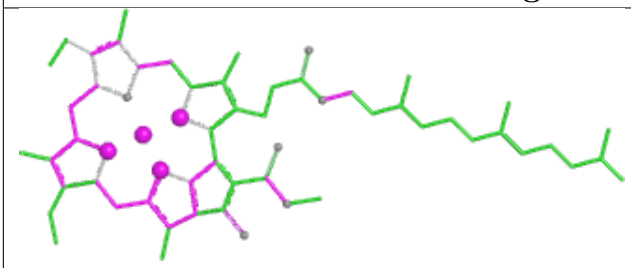


Rings

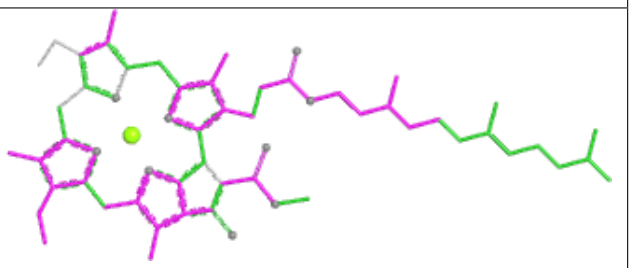
Ligand CLA H 827	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA A 843	
	
Bond lengths	Bond angles
	
Torsions	Rings

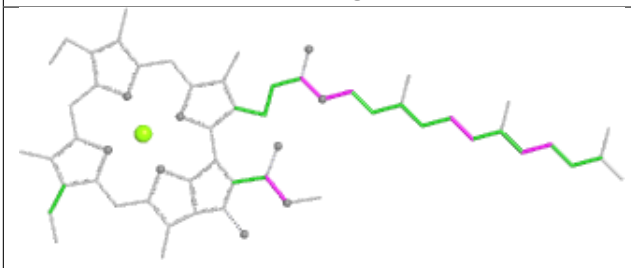
Ligand CLA G 827



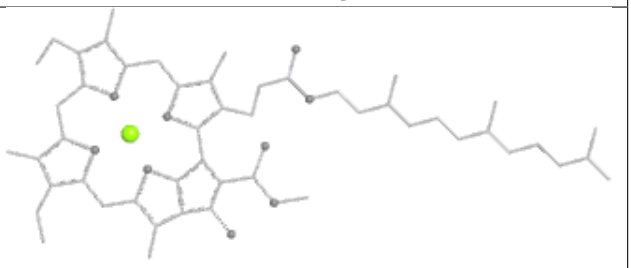
Bond lengths



Bond angles

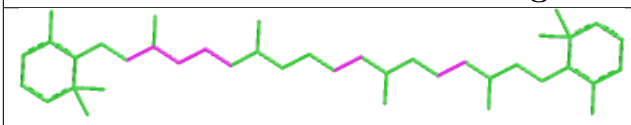


Torsions



Rings

Ligand BCR l 201



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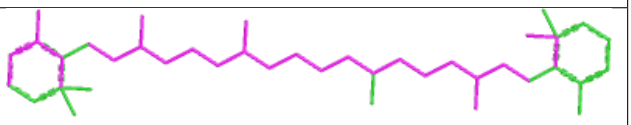
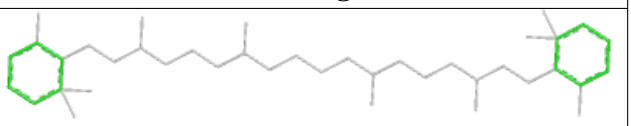


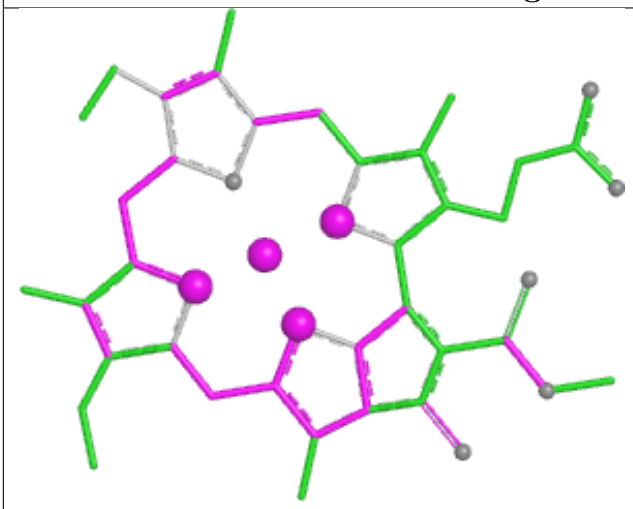
Bond angles

Torsions



Rings

Ligand CLA A 811



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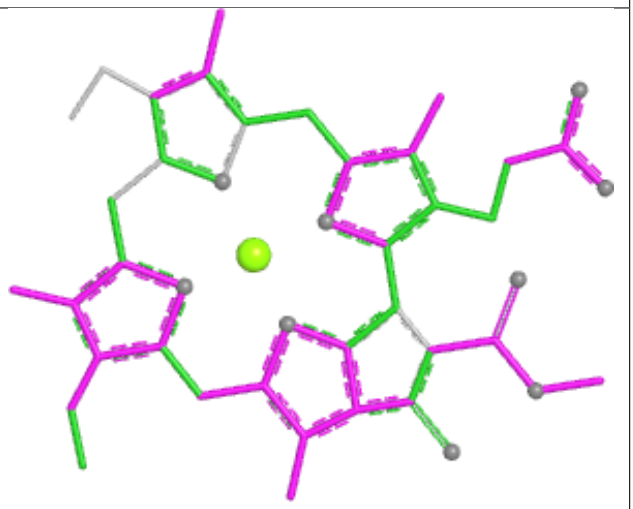
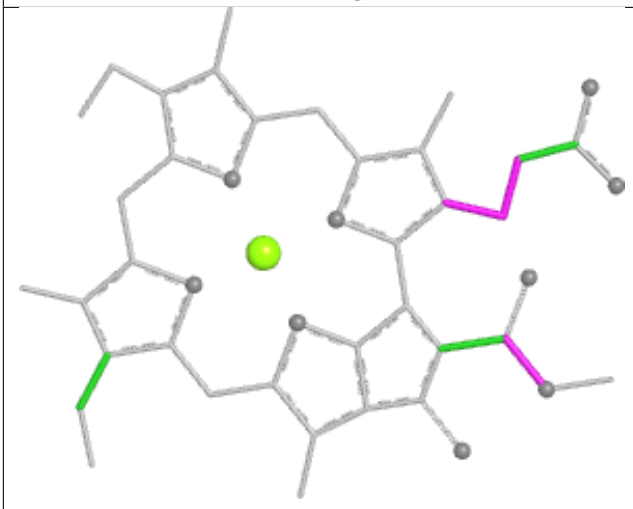


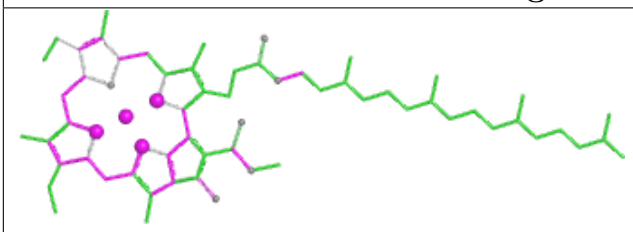
Bond angles



Torsions

Rings

Ligand CLA b 826



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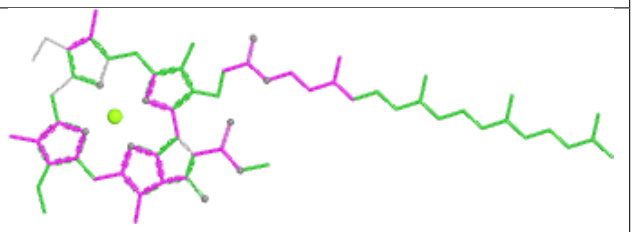
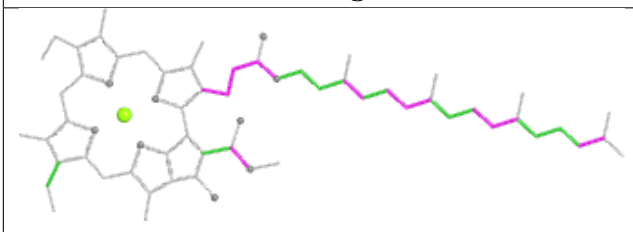
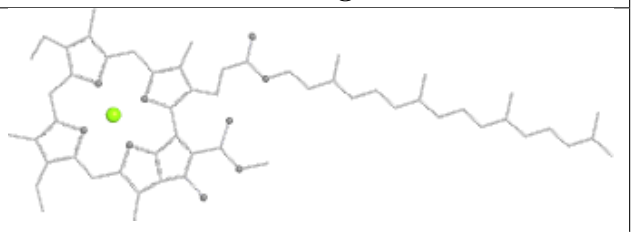


Bond angles

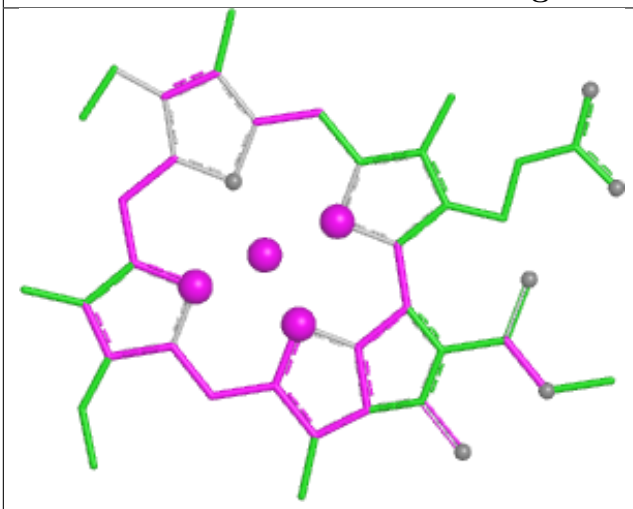


Torsions

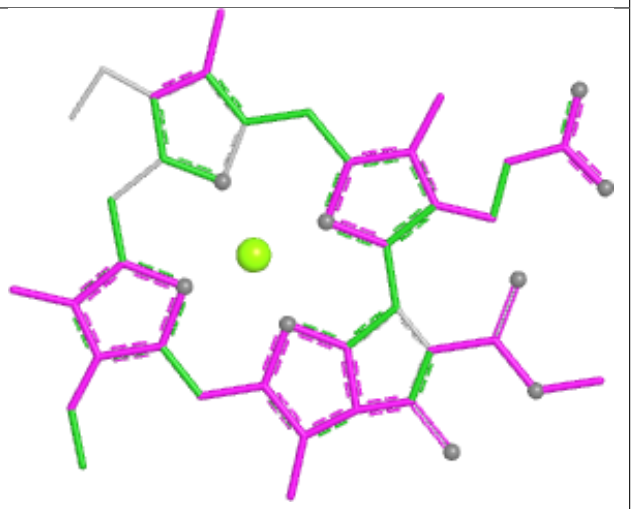


Rings

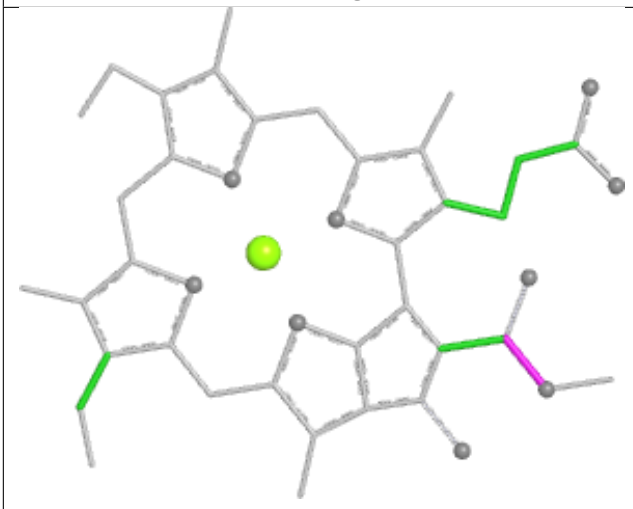
Ligand CLA f 202



Bond lengths



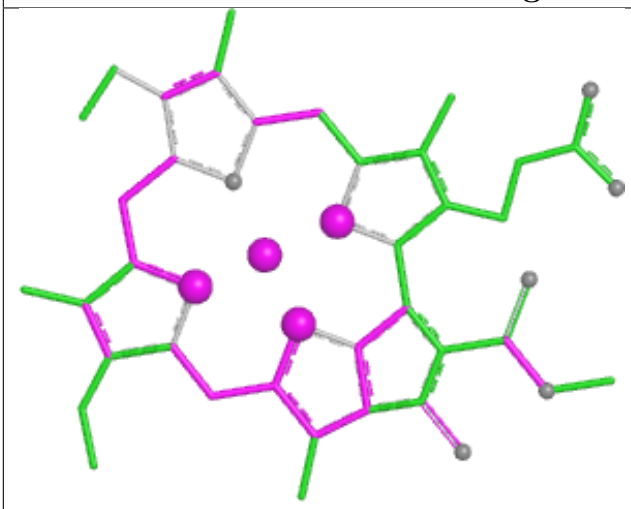
Bond angles



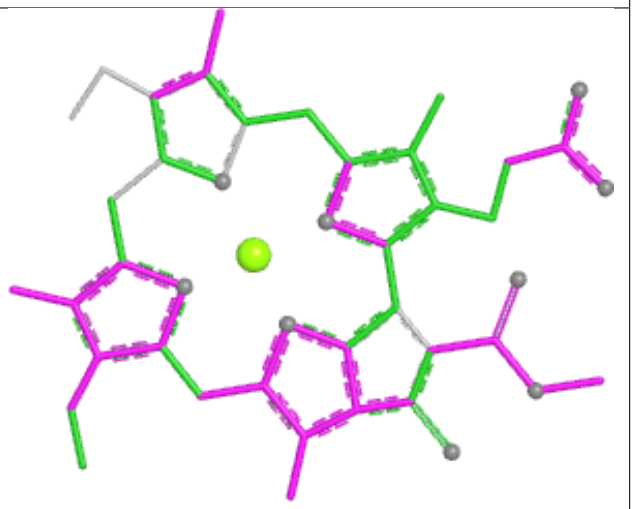
Torsions

Rings

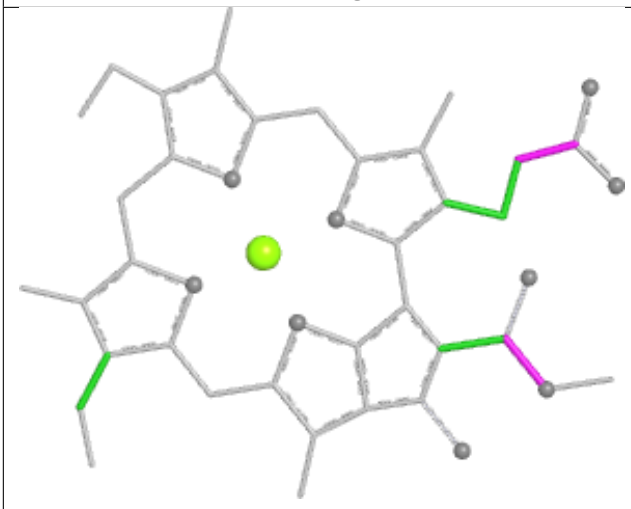
Ligand CLA G 818



Bond lengths



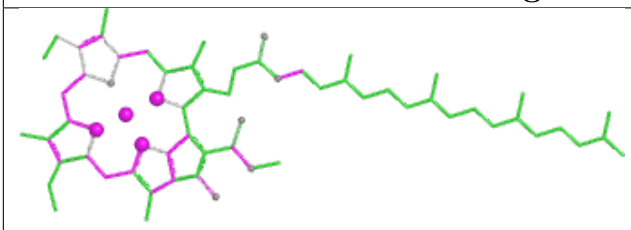
Bond angles



Torsions

Rings

Ligand CLA H 808



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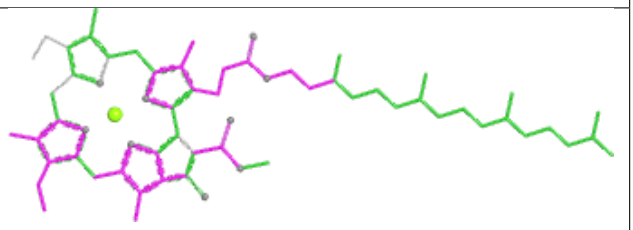
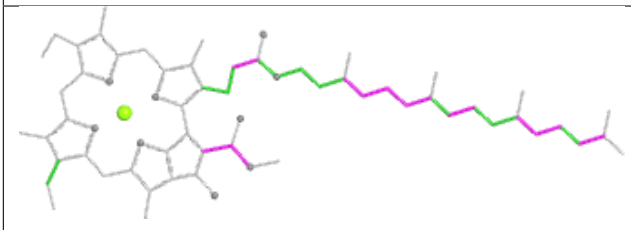
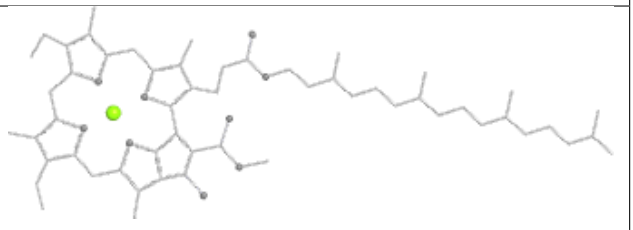


Bond angles

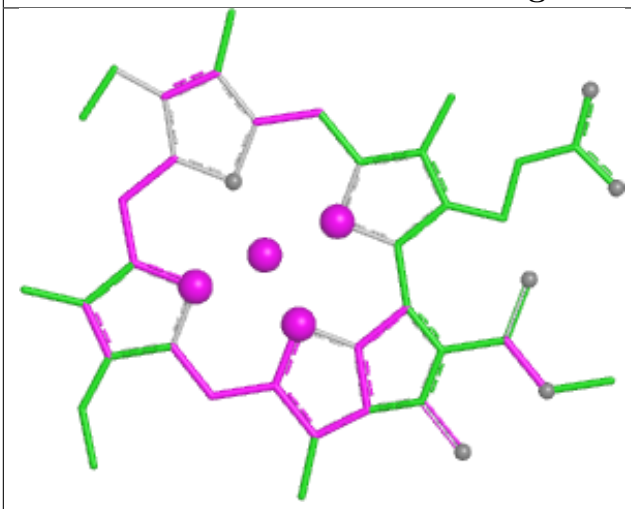


Torsions

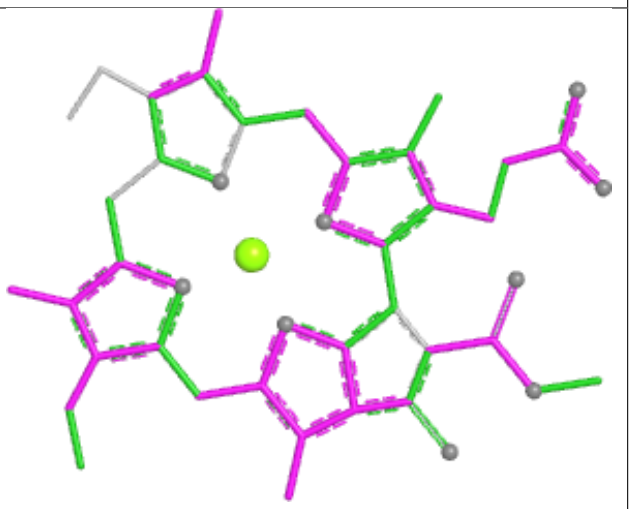


Rings

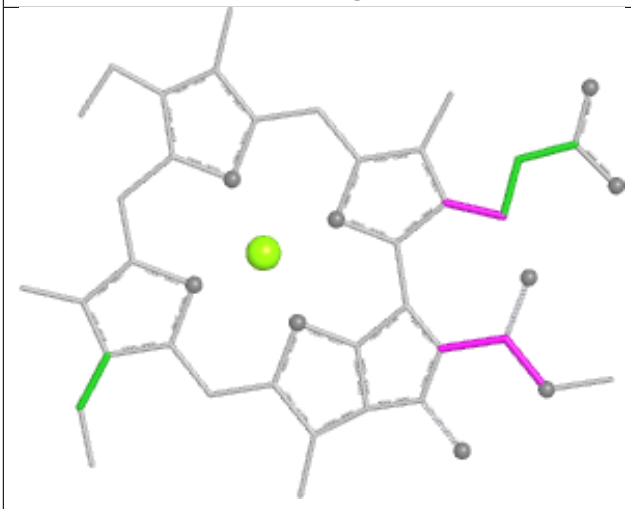
Ligand CLA a 805



Bond lengths



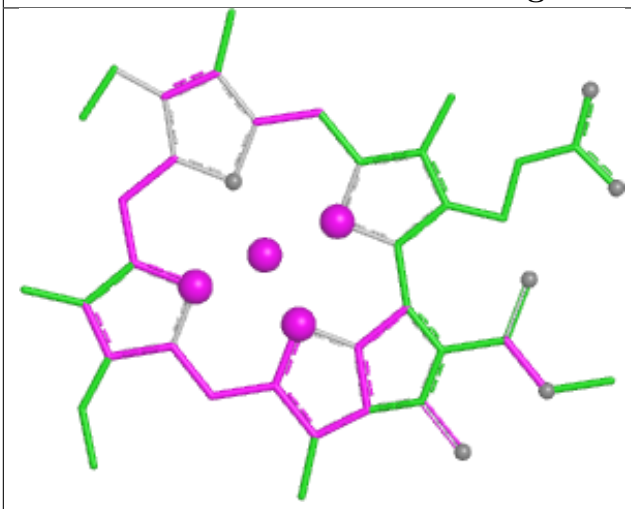
Bond angles



Torsions

Rings

Ligand CLA b 838



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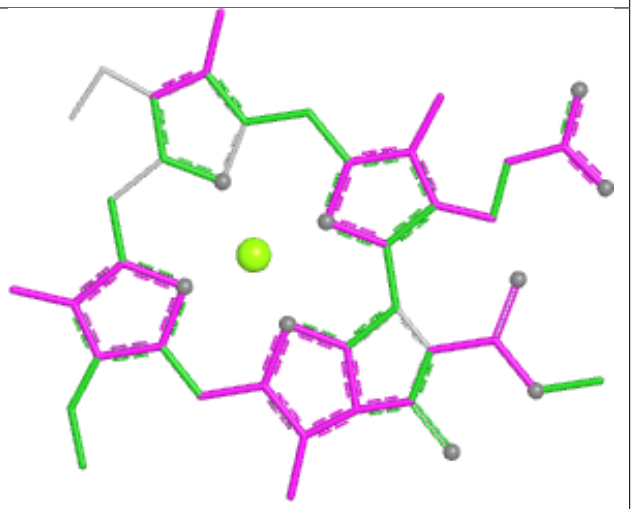
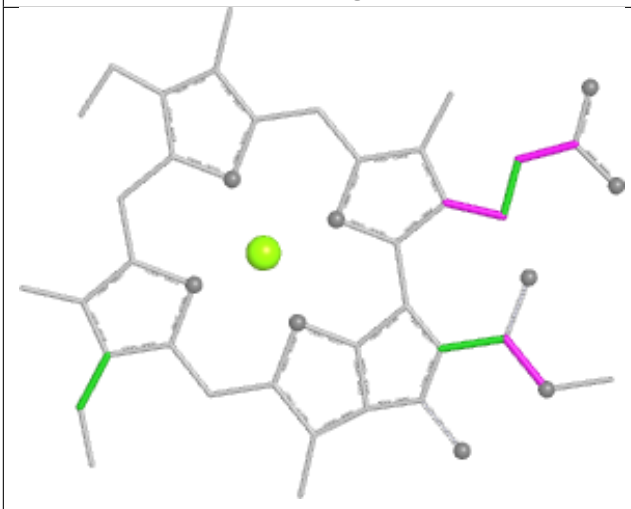


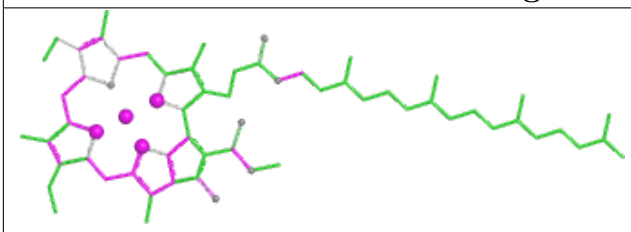
Bond angles



Torsions

Rings

Ligand CLA G 835



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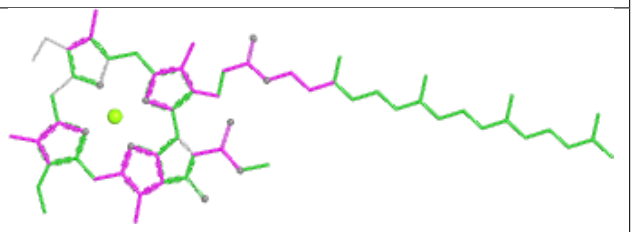
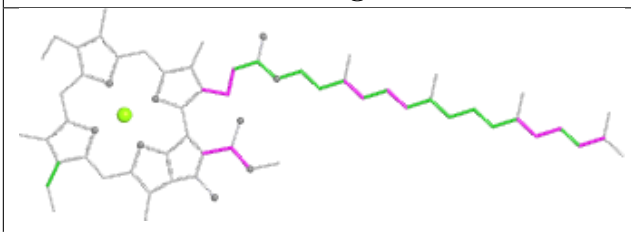
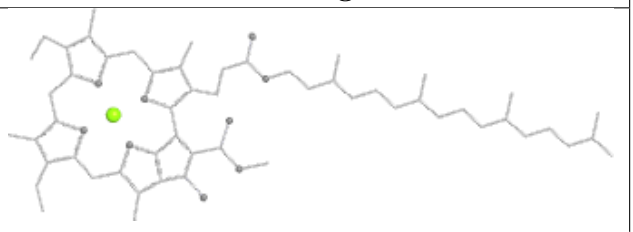


Bond angles

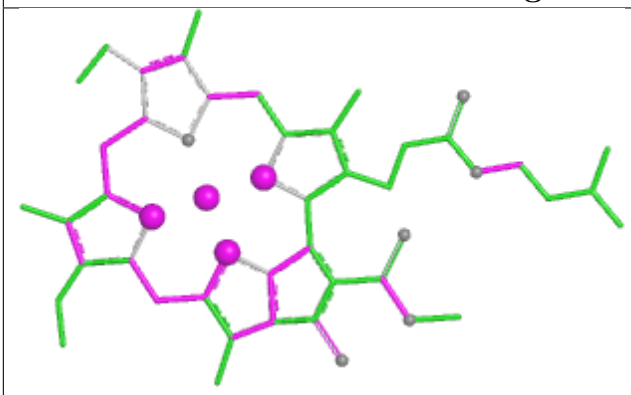


Torsions

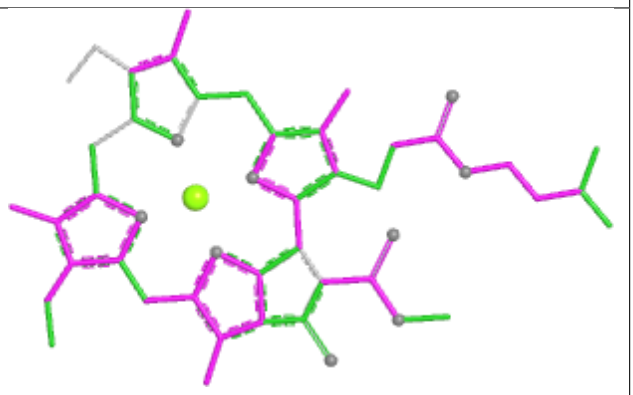


Rings

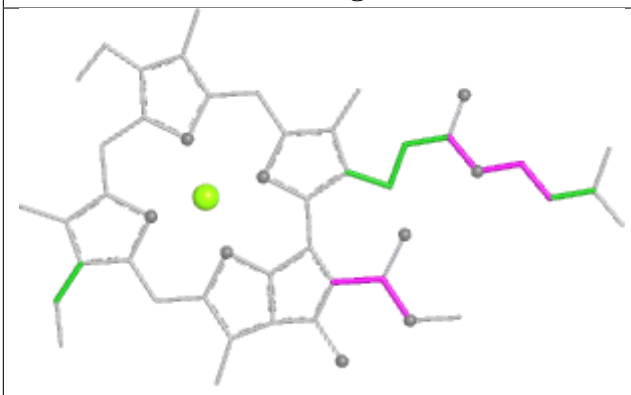
Ligand CLA B 823



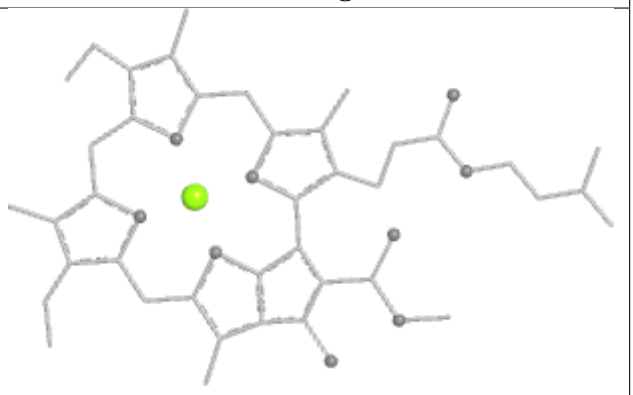
Bond lengths



Bond angles

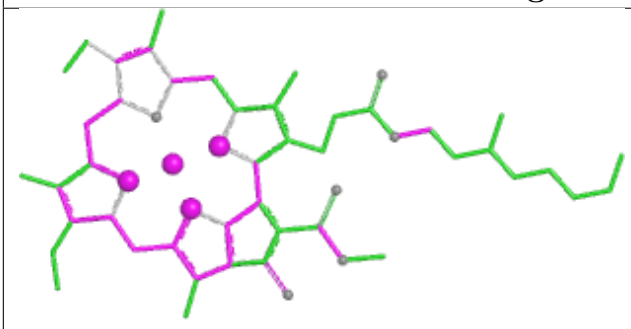


Torsions



Rings

Ligand CLA b 805



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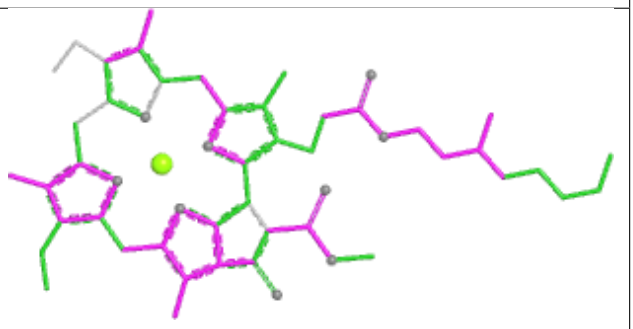
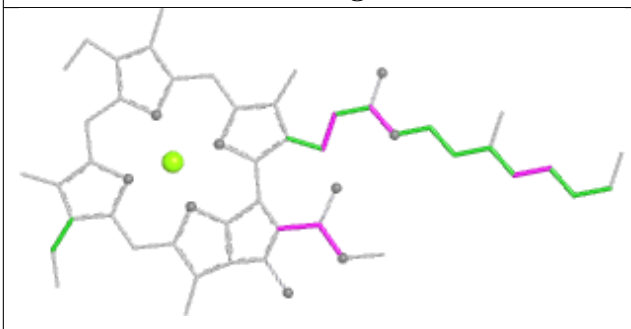
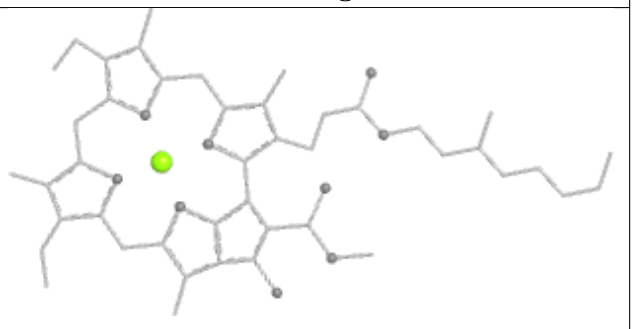


Bond angles

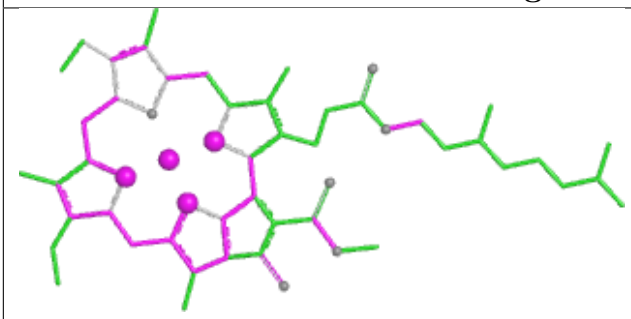


Torsions

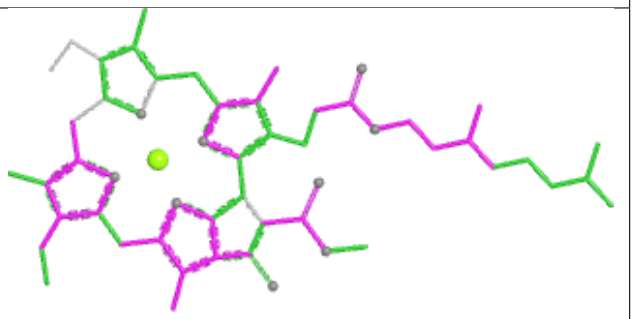


Rings

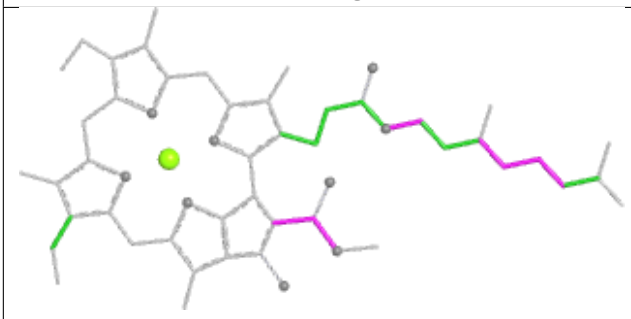
Ligand CLA B 832



Bond lengths



Bond angles



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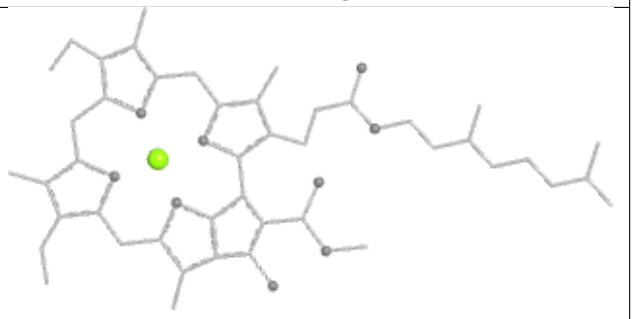
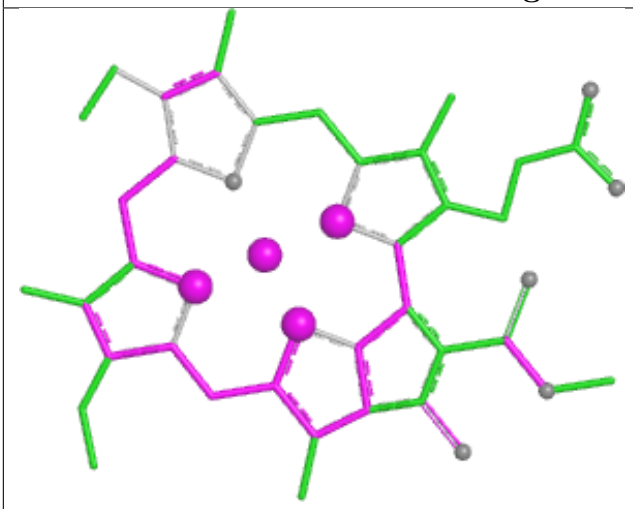


Rings

Ligand CLA G 836



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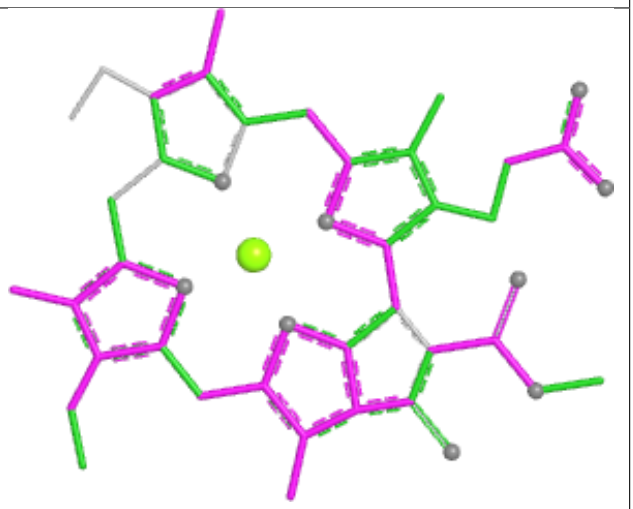
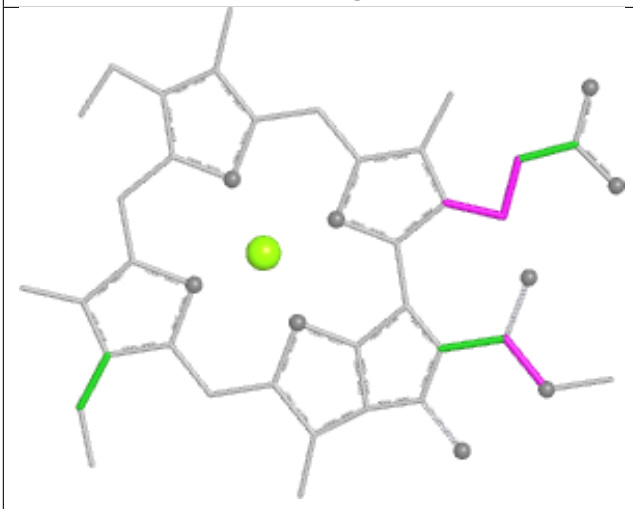


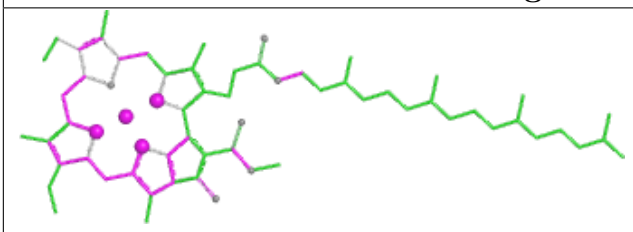
Bond angles



Torsions

Rings

Ligand CLA B 839



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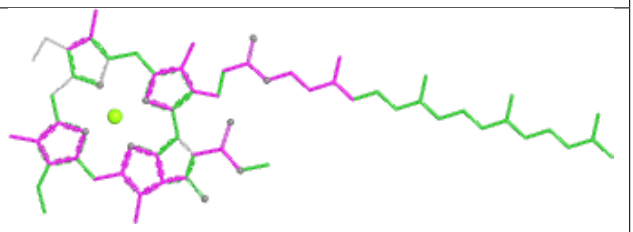

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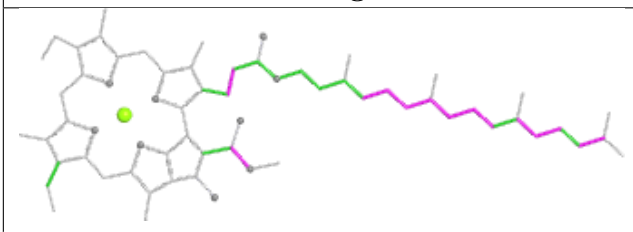
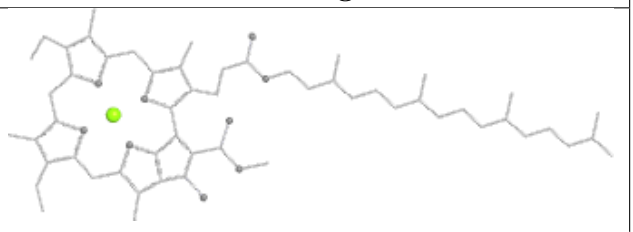
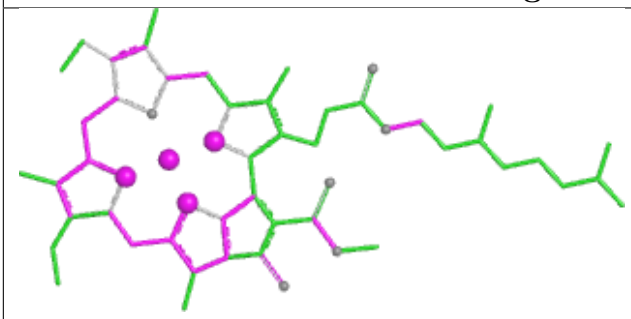


Torsions

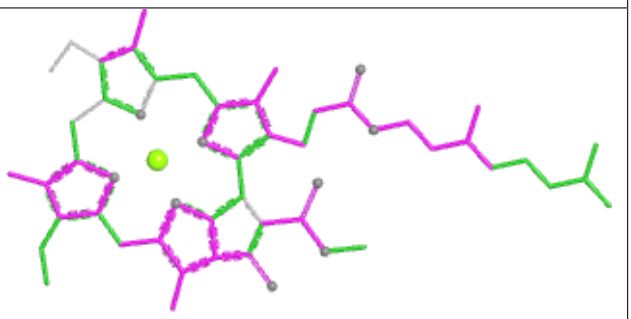


Rings

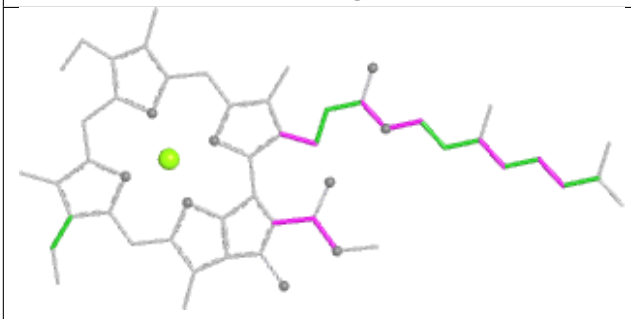
Ligand CLA A 804



Bond lengths



Bond angles



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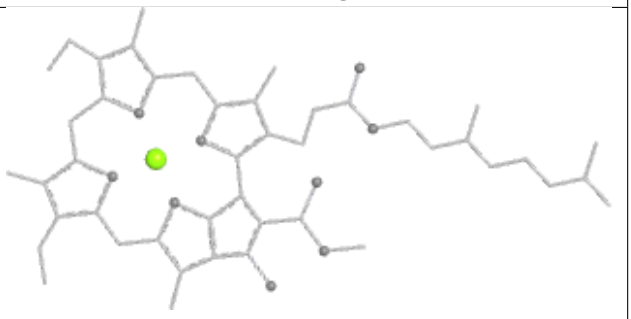
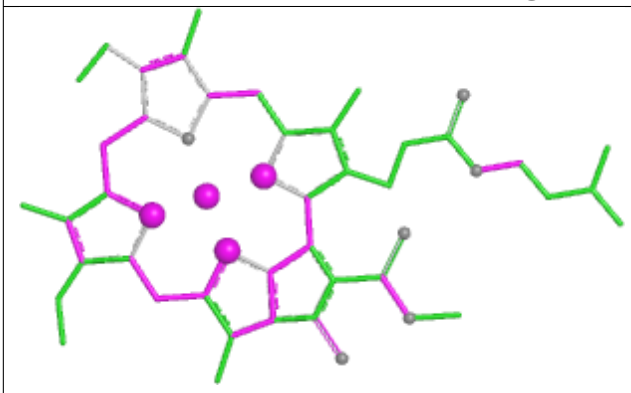


Rings

Ligand CLA G 821



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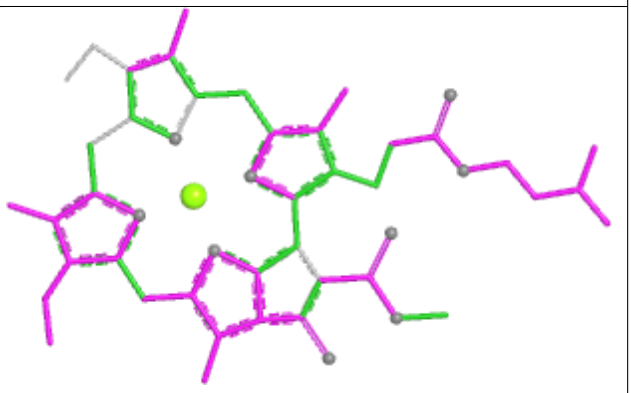
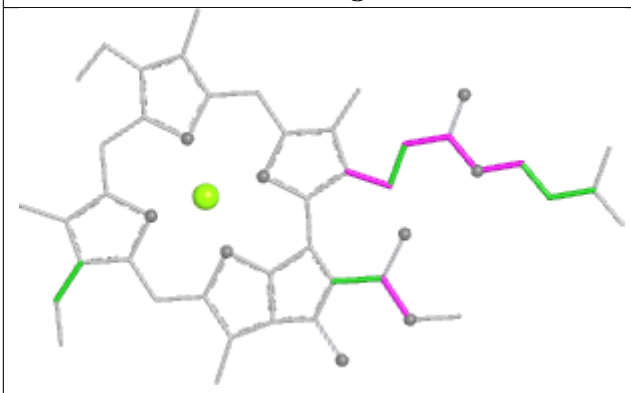


Bond angles



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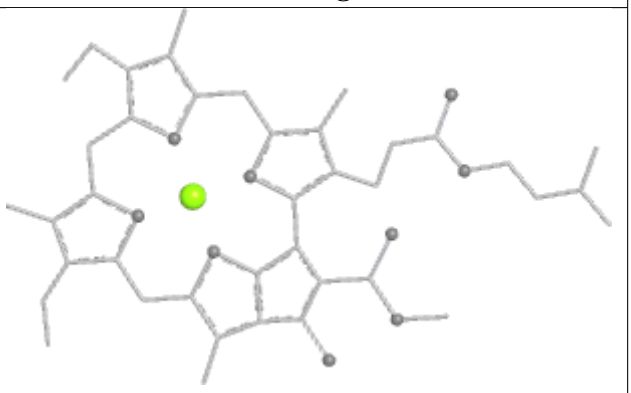
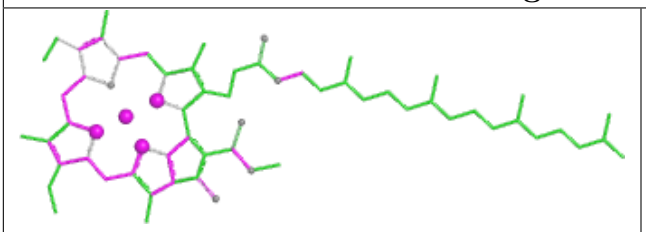


Rings

Ligand CLA U 205



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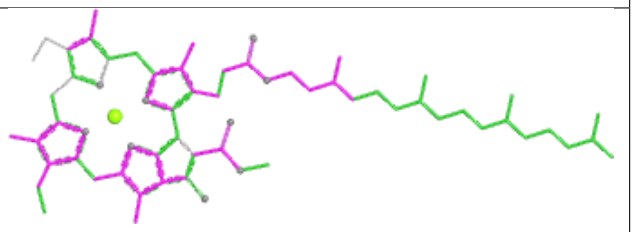
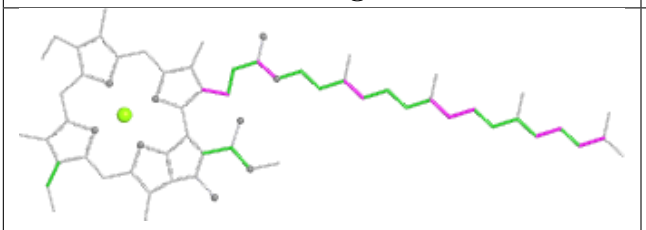


Bond angles



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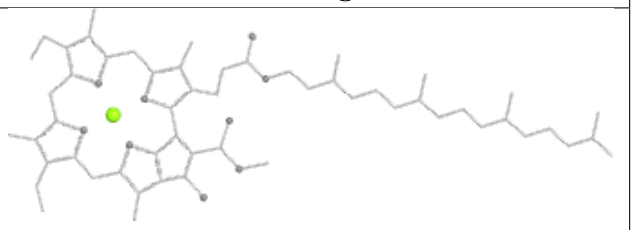
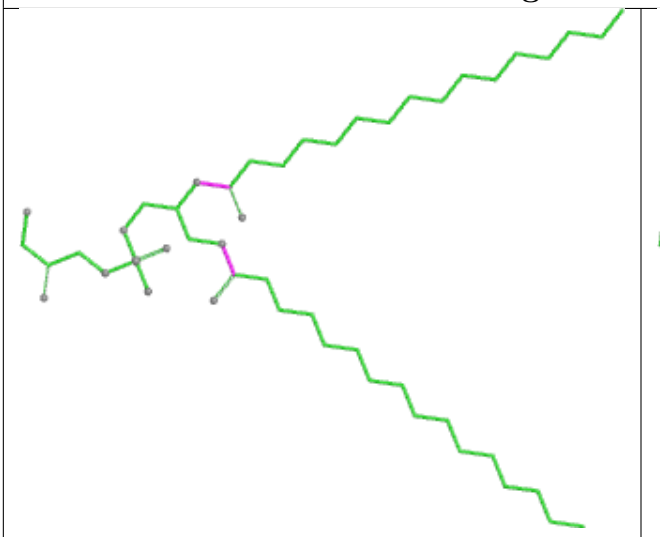


Rings

Ligand LHG A 854



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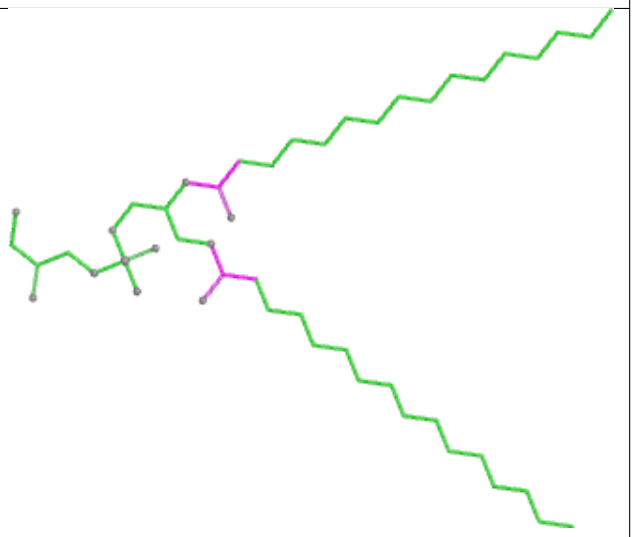
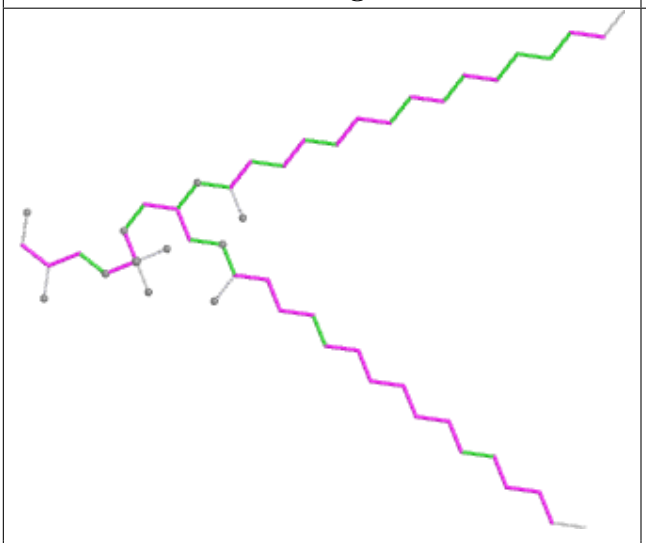


Bond angles



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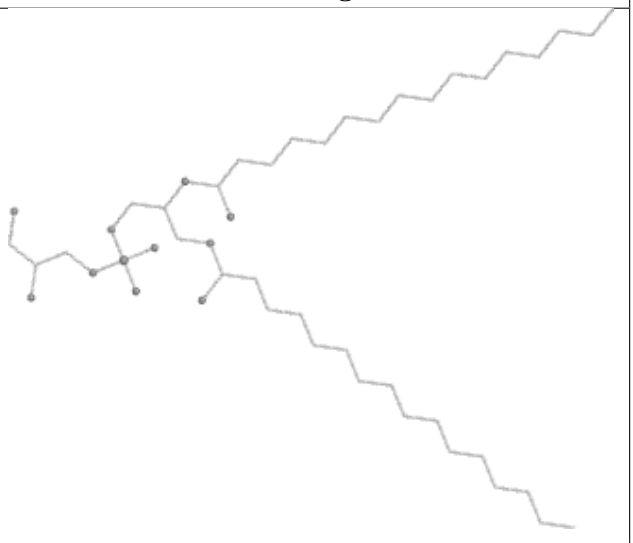
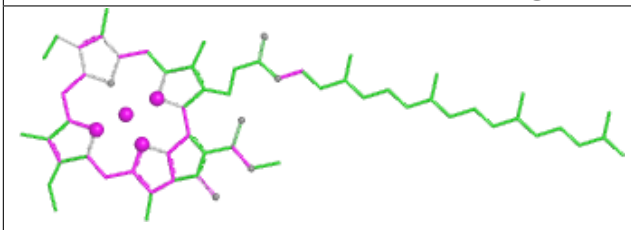
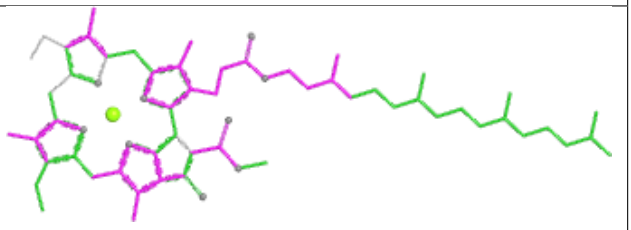
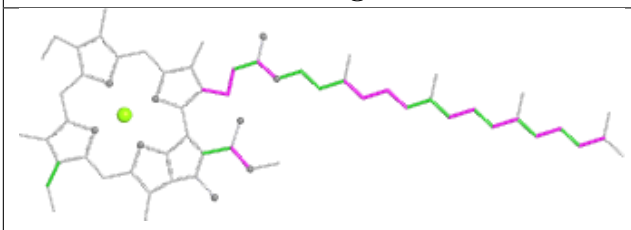
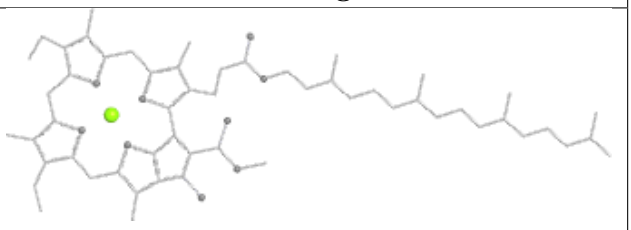
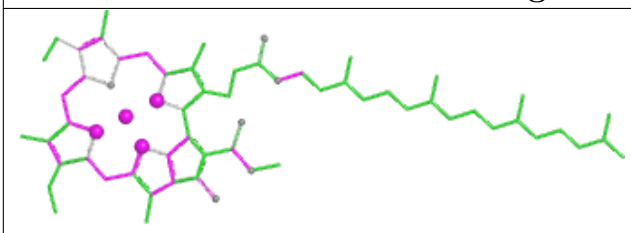
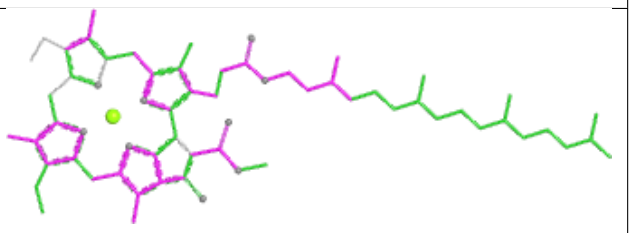
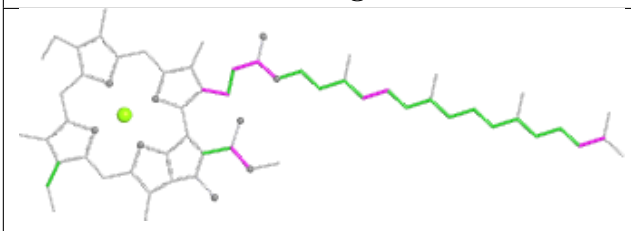
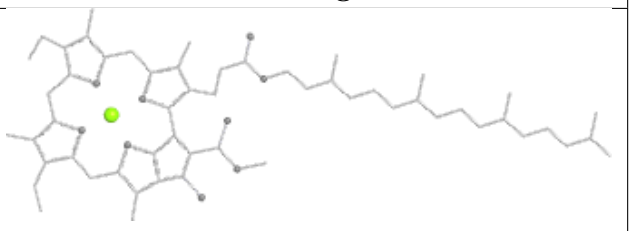
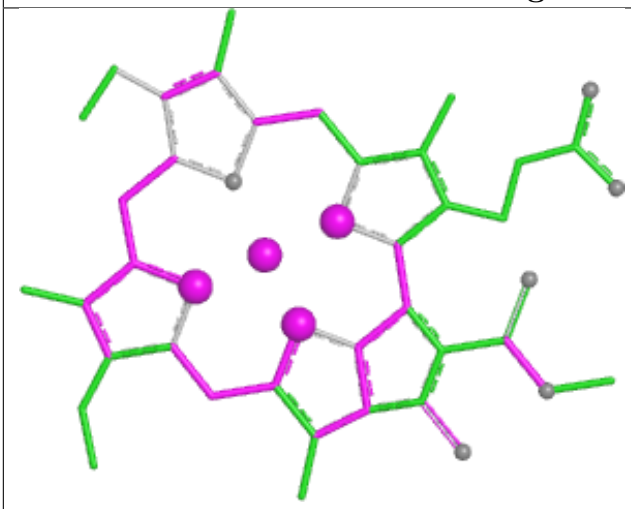


Rings

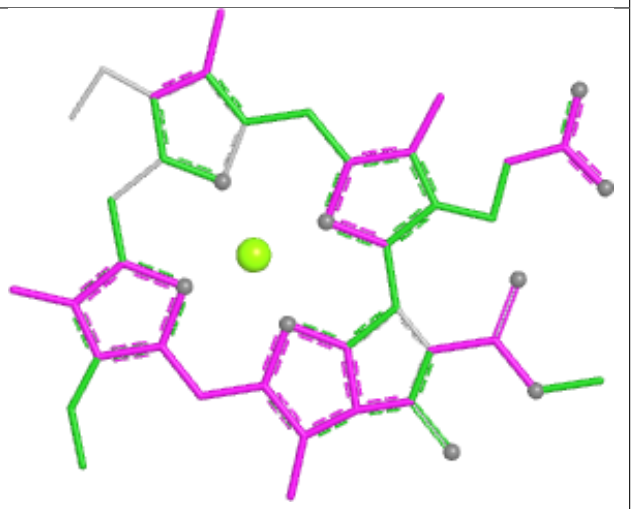
Ligand CLA a 819	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CL0 A 801	
	
Bond lengths	Bond angles
	
Torsions	Rings

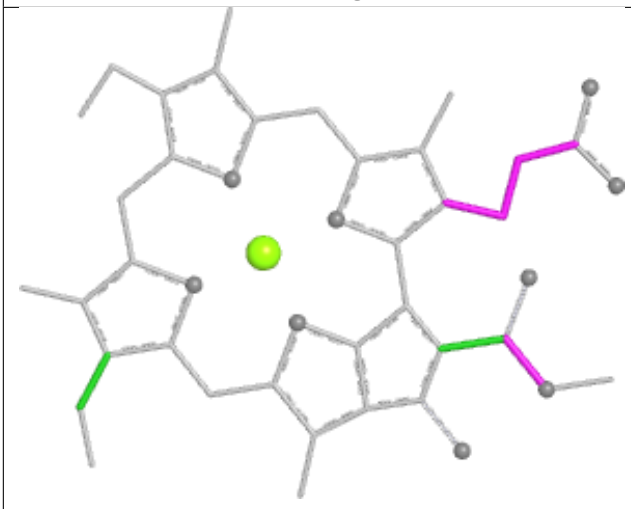
Ligand CLA b 819



Bond lengths



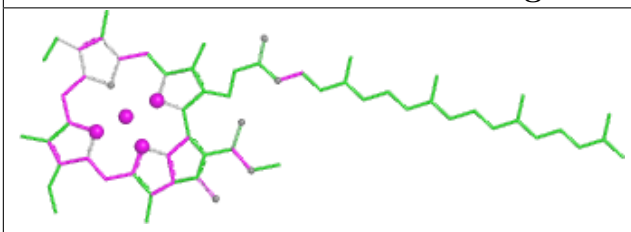
Bond angles



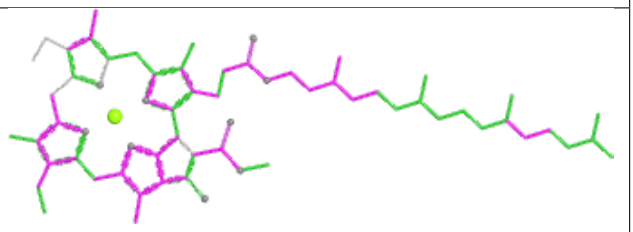
Torsions

Rings

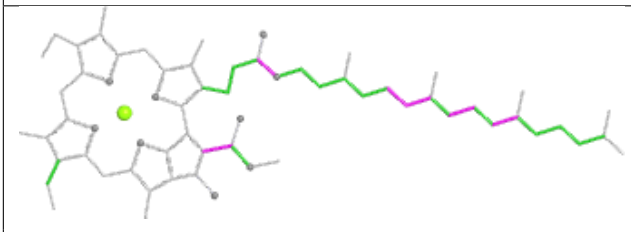
Ligand CLA B 828



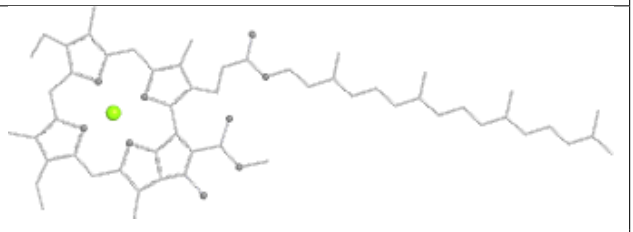
Bond lengths



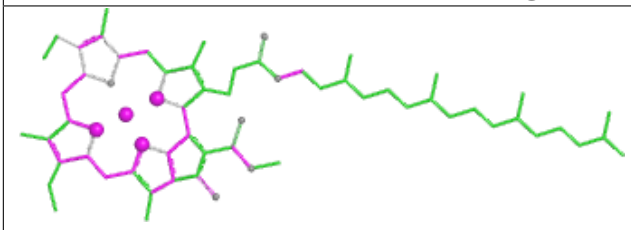
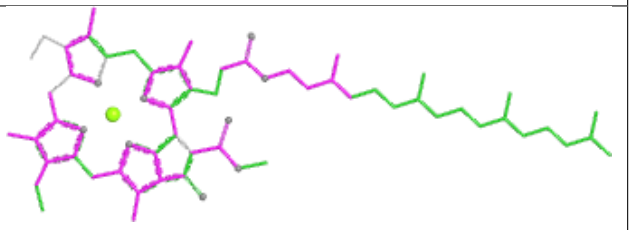
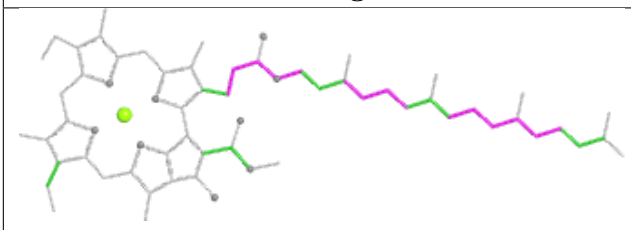
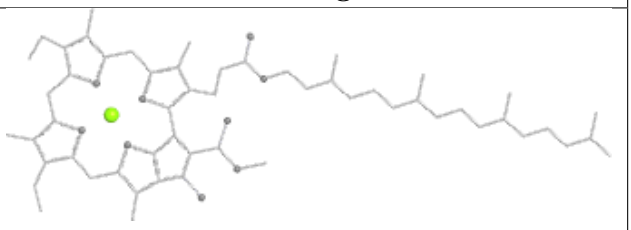
Bond angles

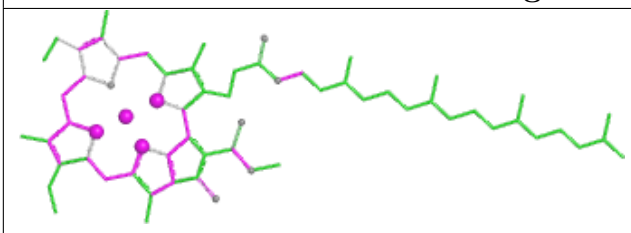
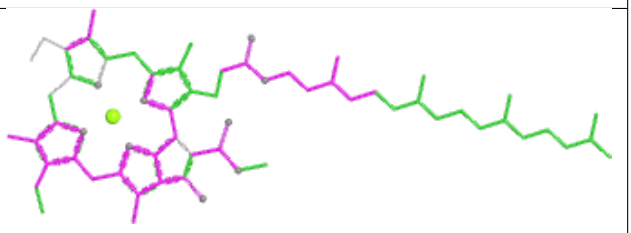
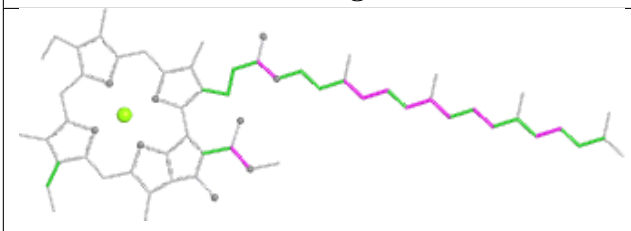
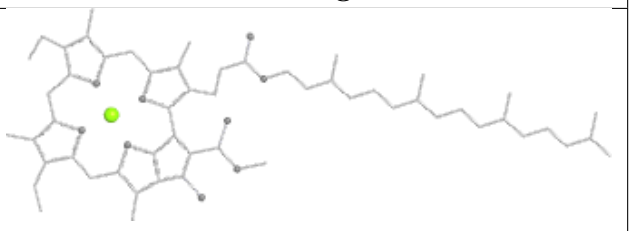


Torsions

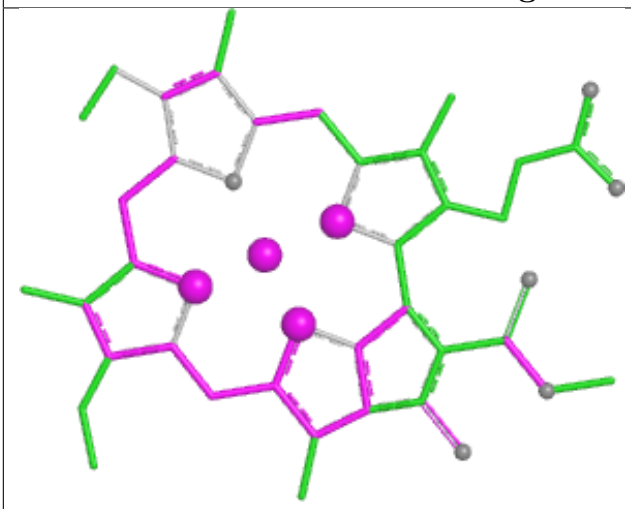


Rings

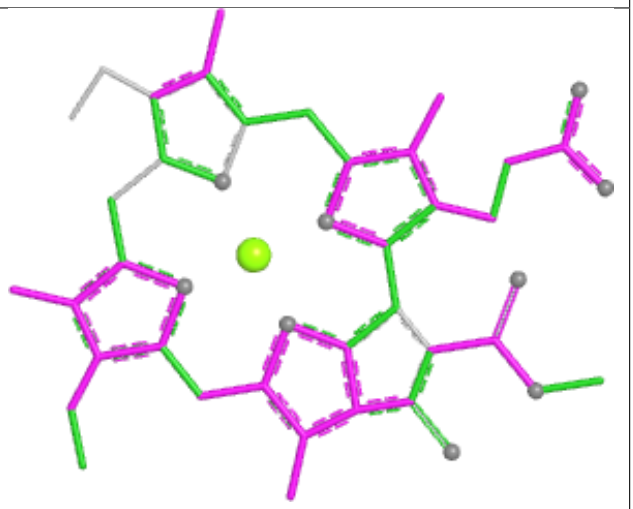
Ligand CLA G 826	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA A 828	
	
Bond lengths	Bond angles
	
Torsions	Rings

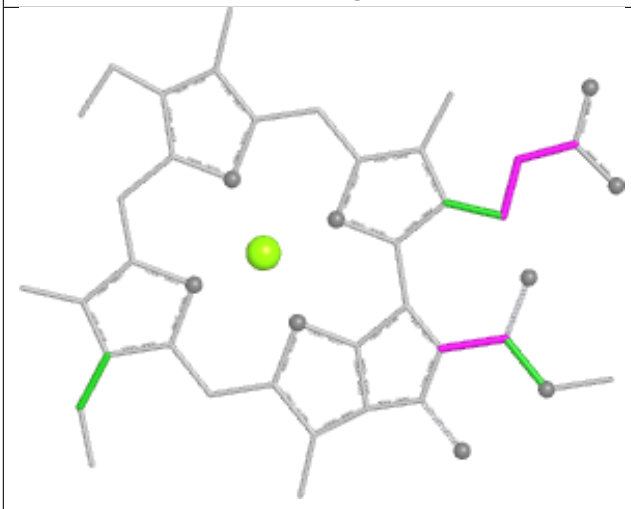
Ligand CLA x 1701



Bond lengths



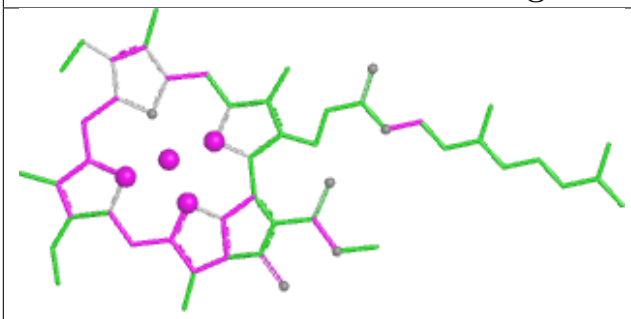
Bond angles



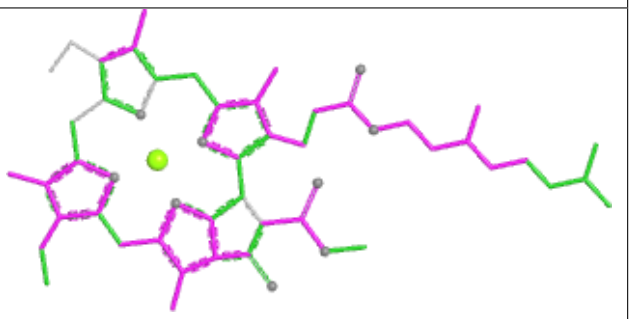
Torsions

Rings

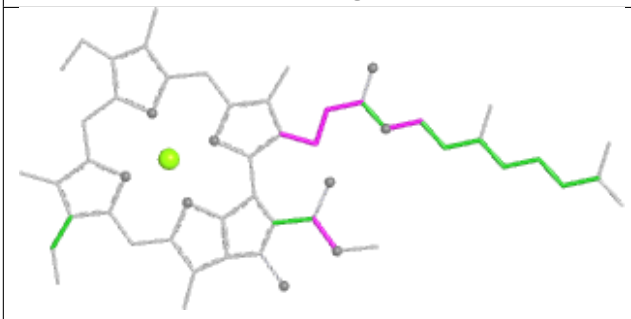
Ligand CLA b 816



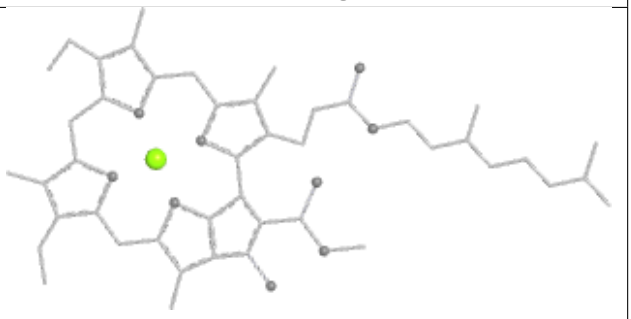
Bond lengths



Bond angles

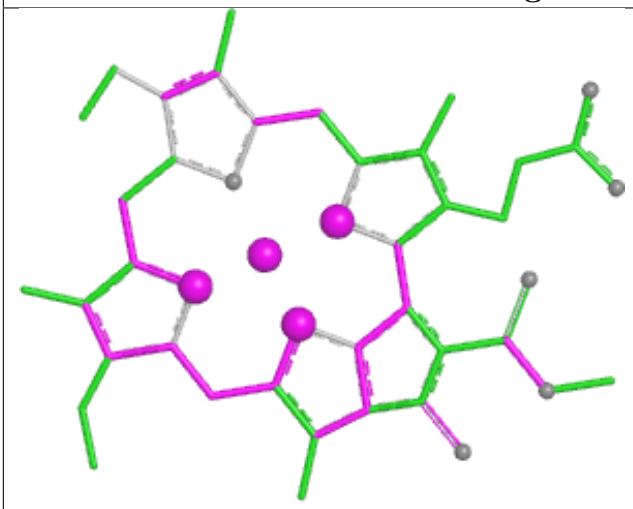


Torsions

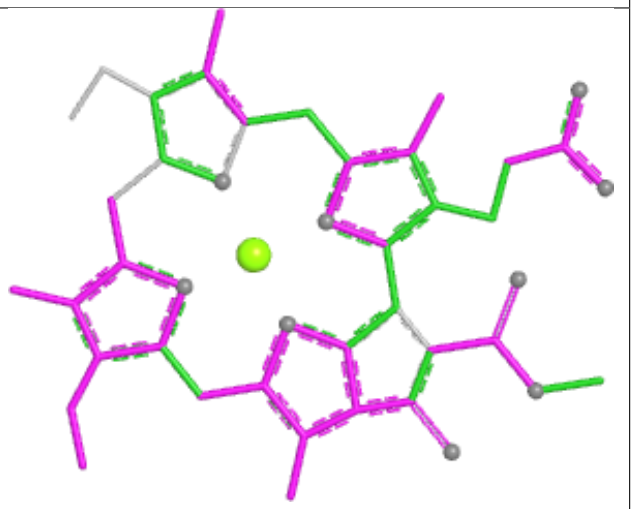


Rings

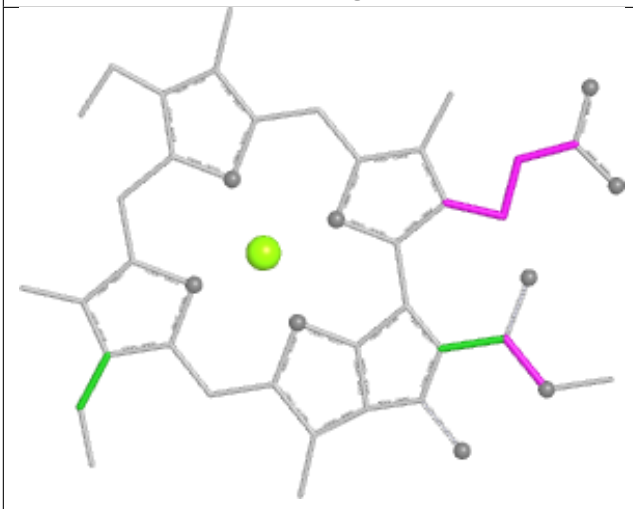
Ligand CLA B 829



Bond lengths



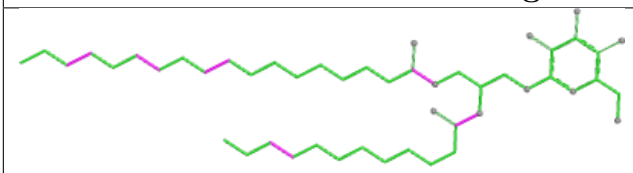
Bond angles



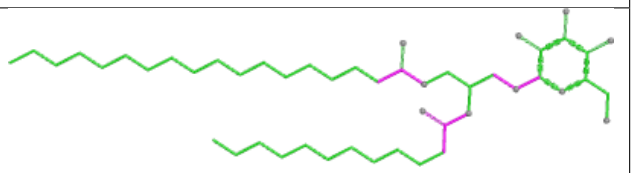
Torsions

Rings

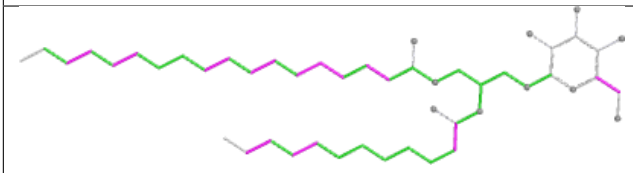
Ligand LMG b 848



Bond lengths



Bond angles



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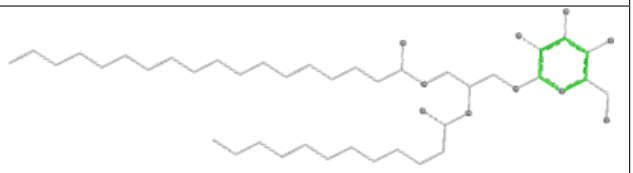
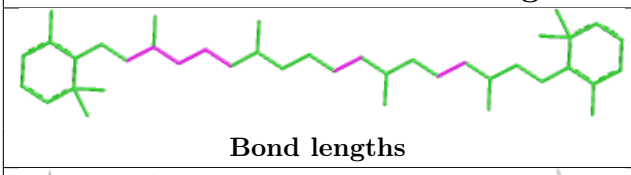
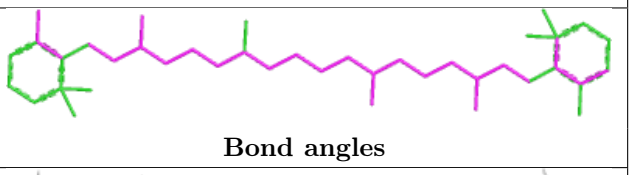


Rings

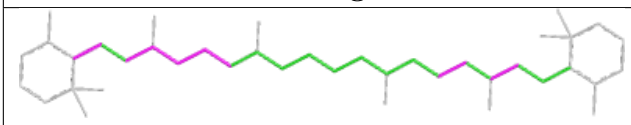
Ligand BCR G 848



Bond lengths



Bond angles



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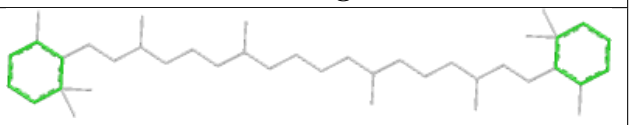
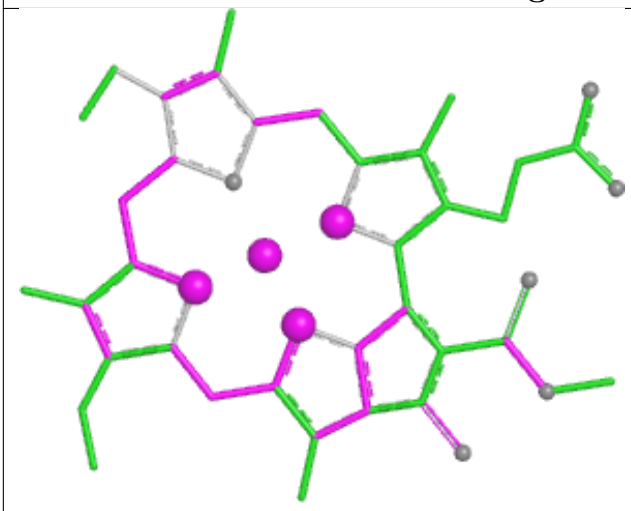


Rings

Ligand CLA a 841



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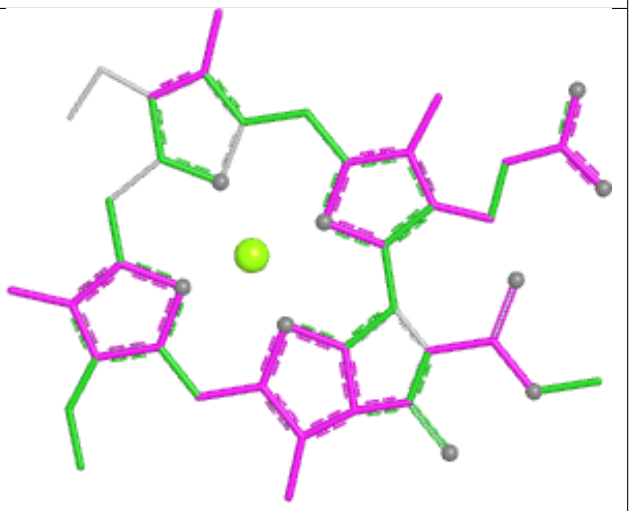
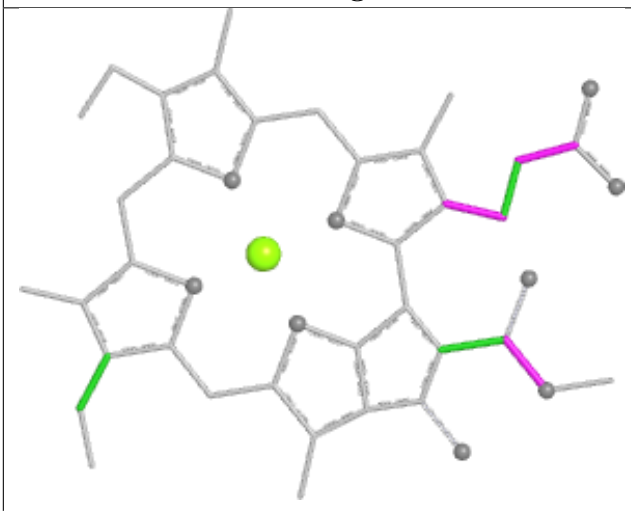


Bond angles



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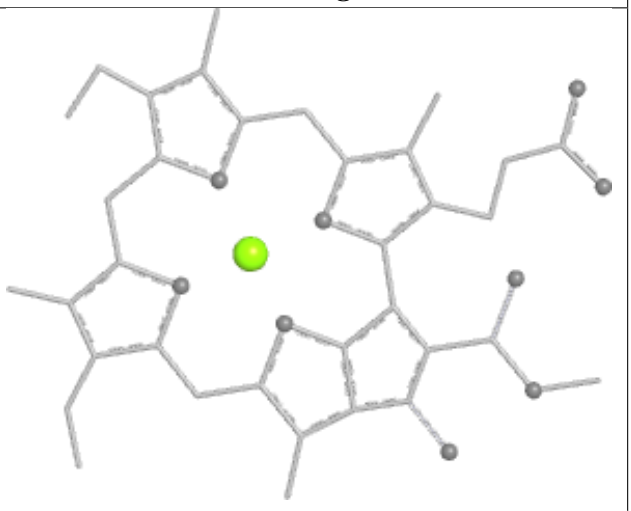
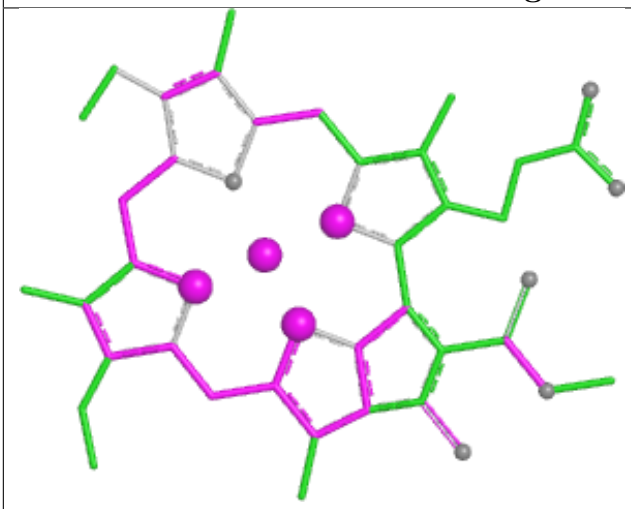
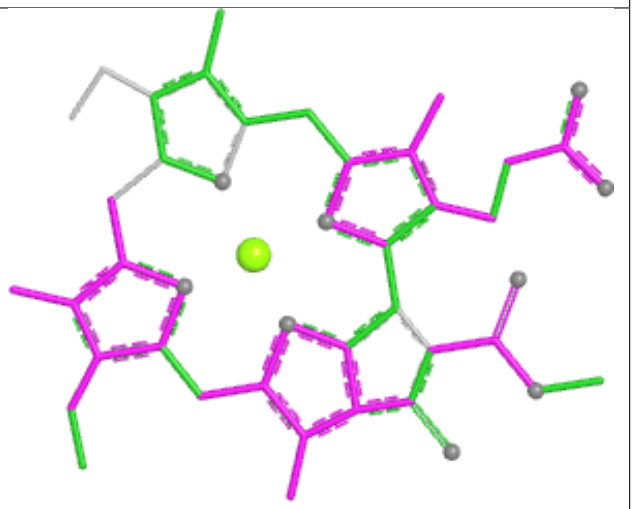


Rings

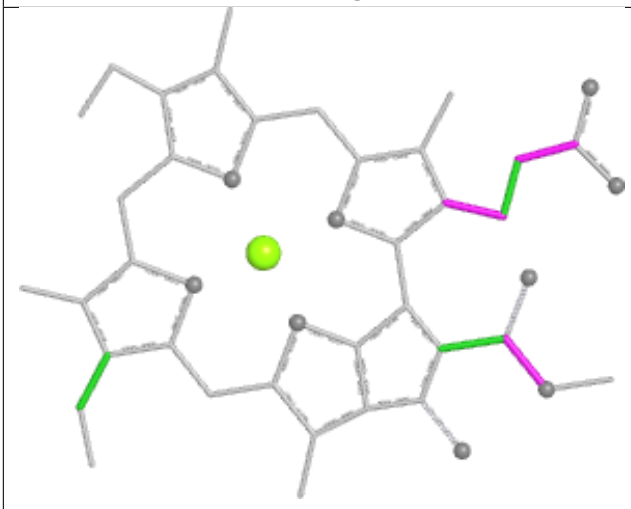
Ligand CLA B 835



Bond lengths



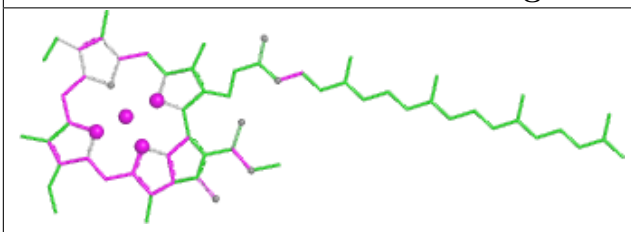
Bond angles



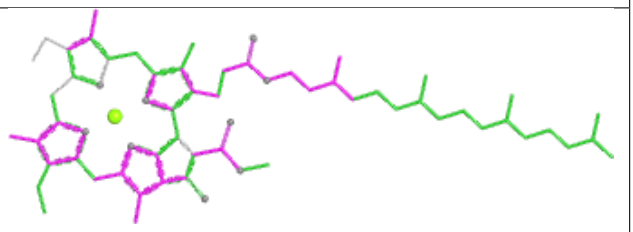
Torsions

Rings

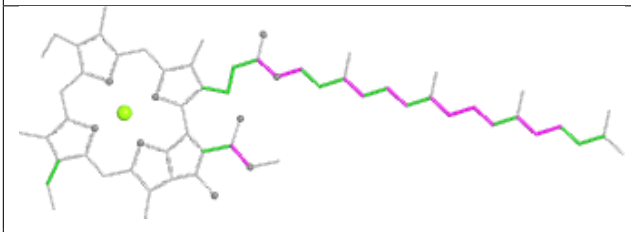
Ligand CLA A 834



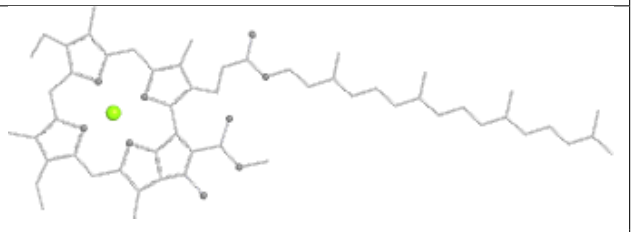
Bond lengths



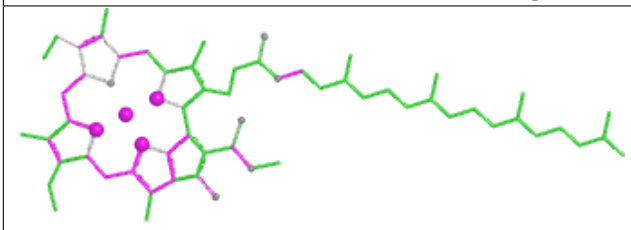
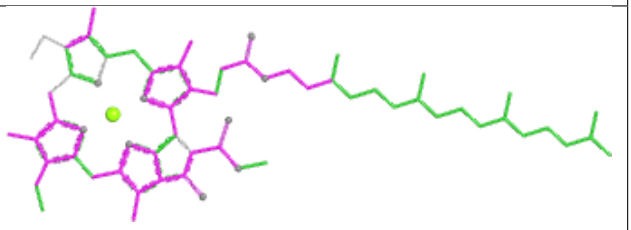
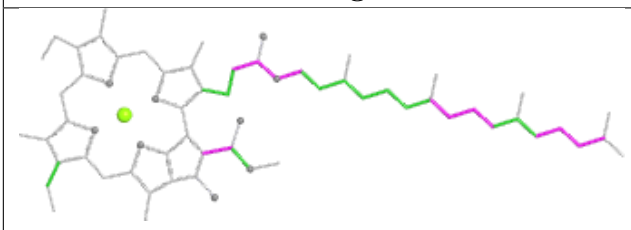
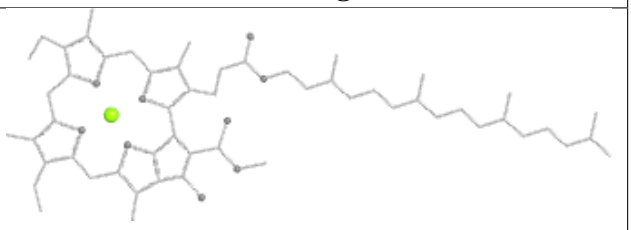
Bond angles

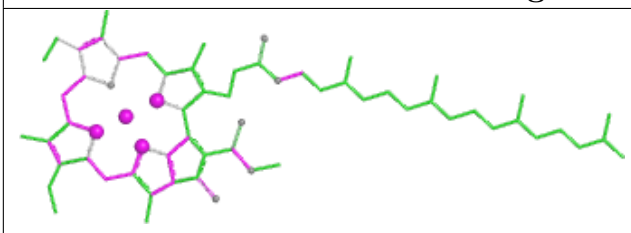
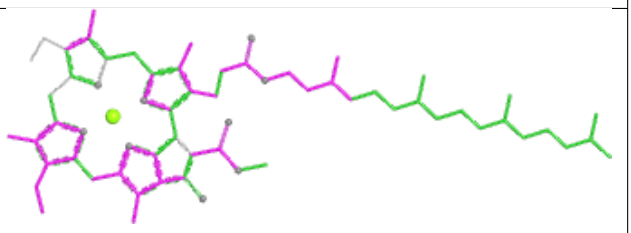
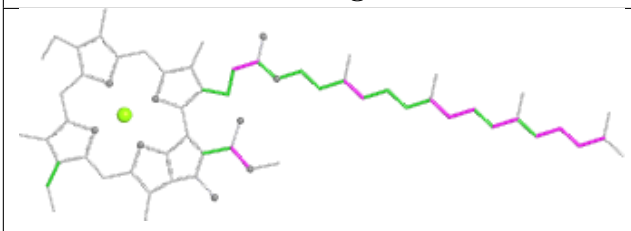
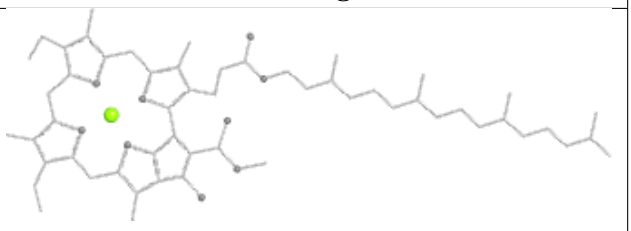


Torsions

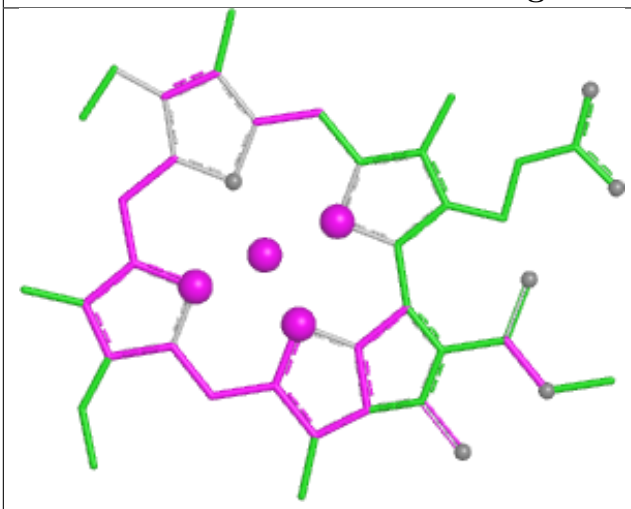


Rings

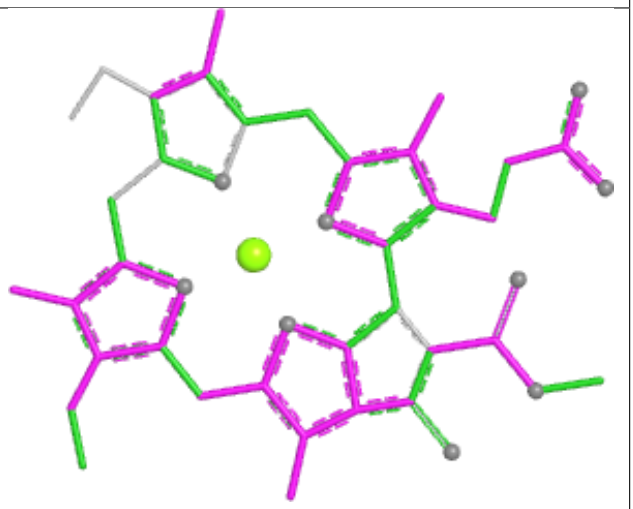
Ligand CLA L 201	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 803	
	
Bond lengths	Bond angles
	
Torsions	Rings

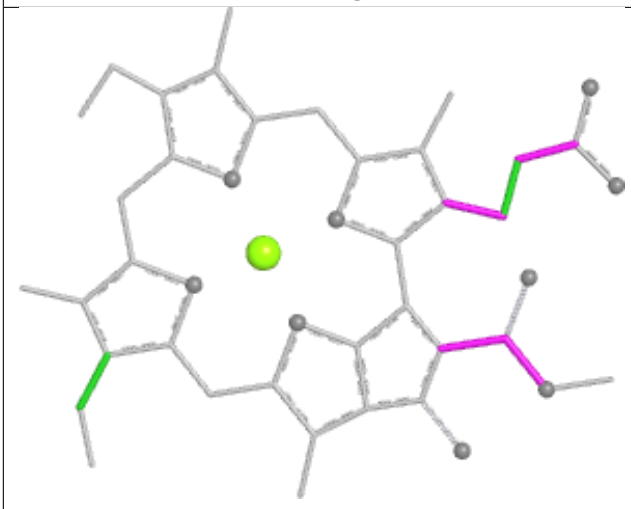
Ligand CLA b 835



Bond lengths



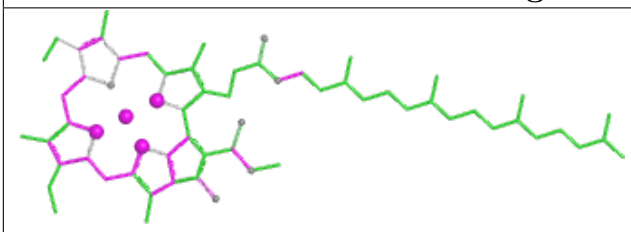
Bond angles



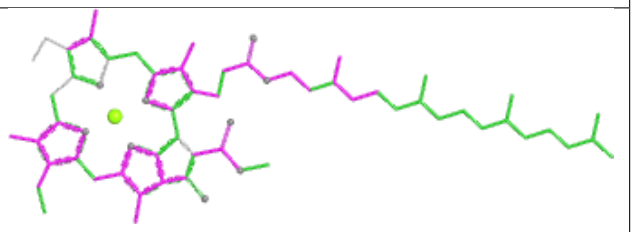
Torsions

Rings

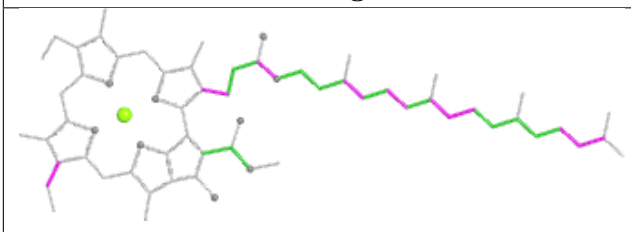
Ligand CLA L 205



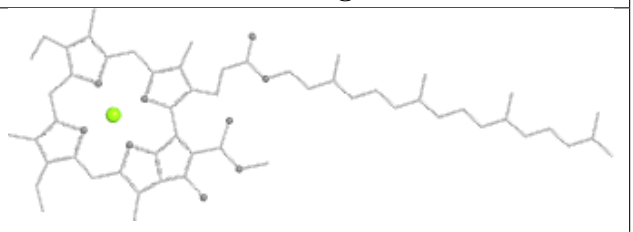
Bond lengths



Bond angles

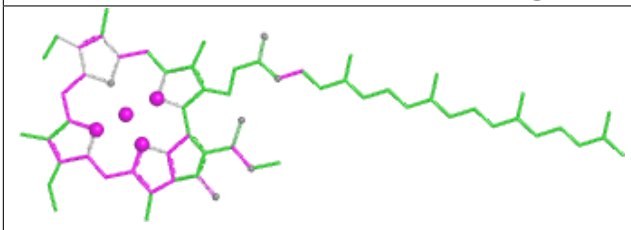


Torsions

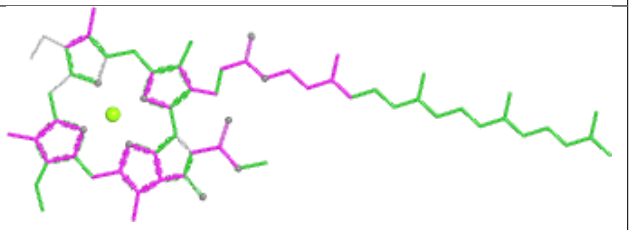


Rings

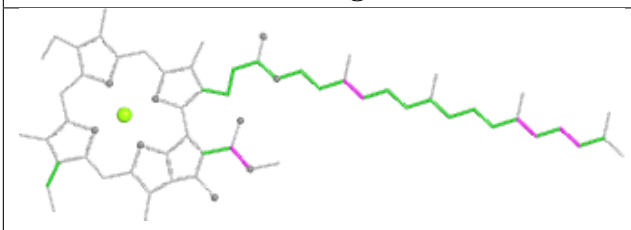
Ligand CLA a 833



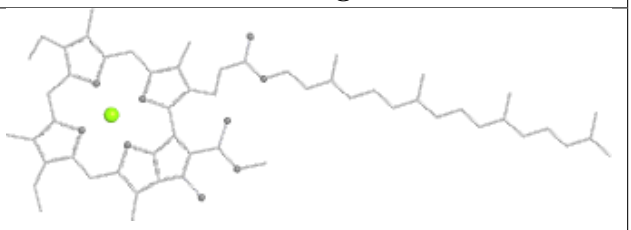
Bond lengths



Bond angles

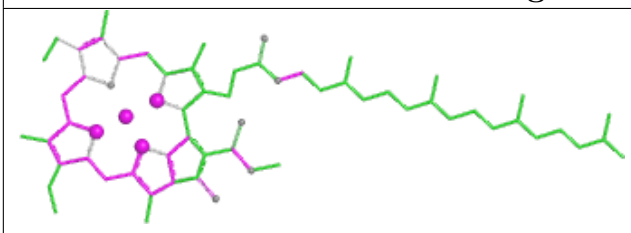


Torsions

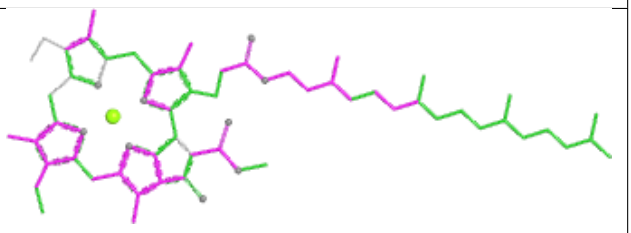


Rings

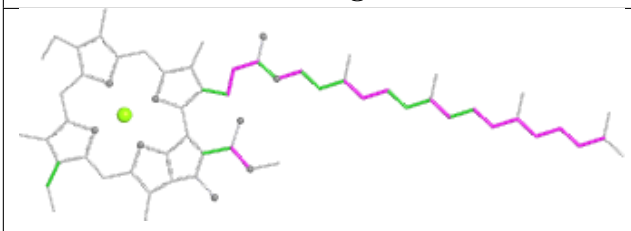
Ligand CLA b 831



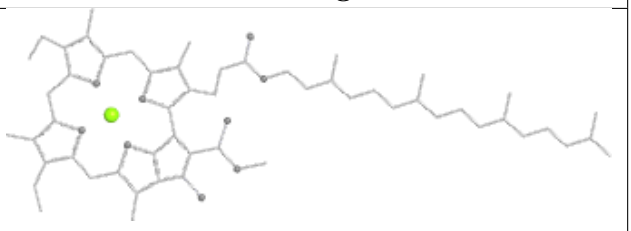
Bond lengths



Bond angles

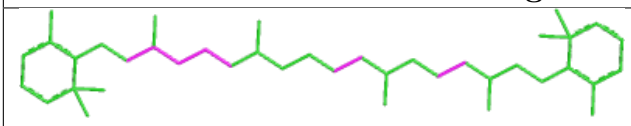


Torsions

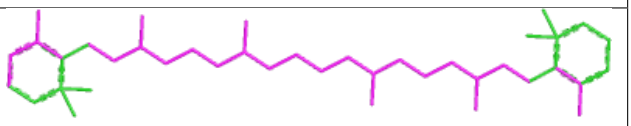


Rings

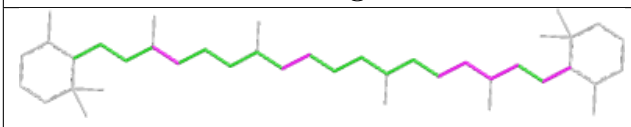
Ligand BCR b 844



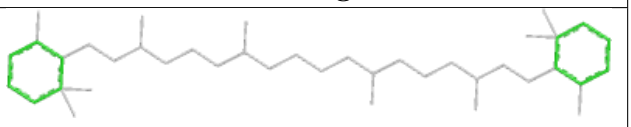
Bond lengths



Bond angles

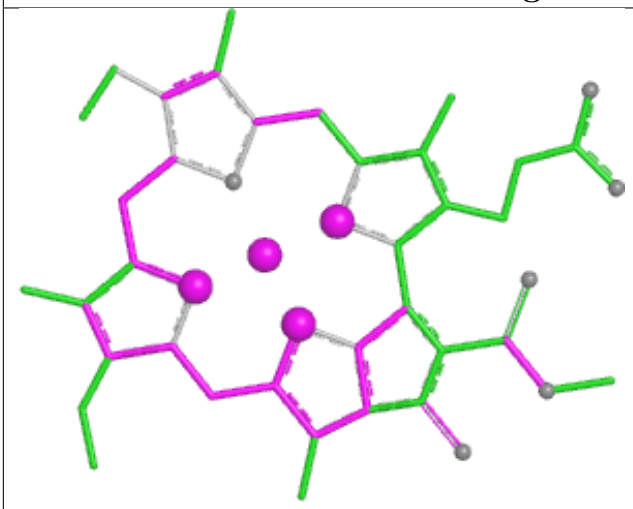


Torsions

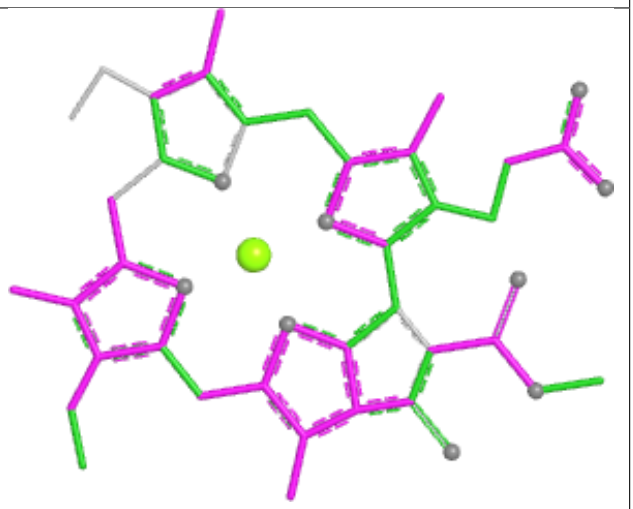


Rings

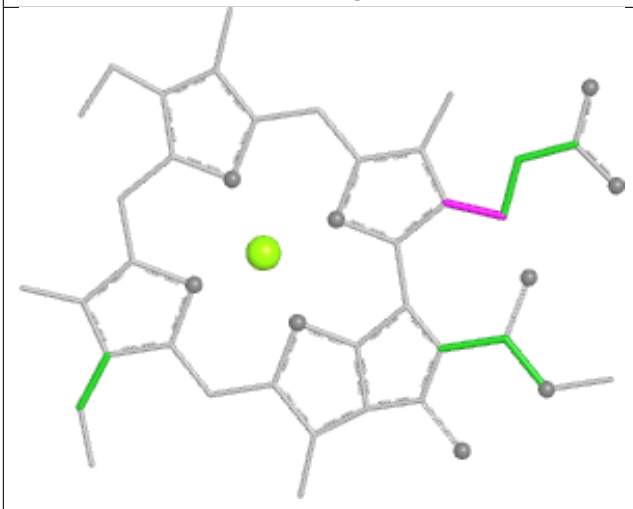
Ligand CLA G 815



Bond lengths



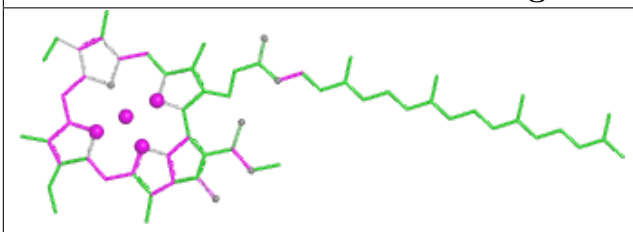
Bond angles



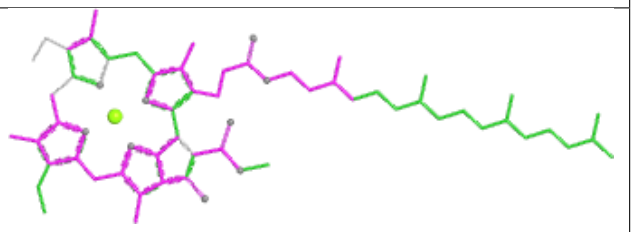
Torsions

Rings

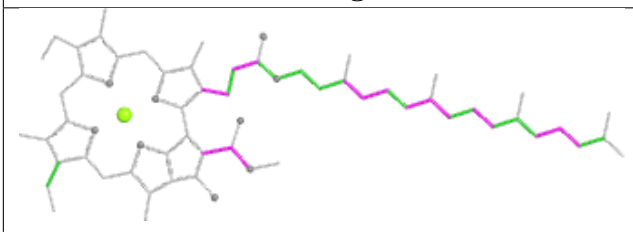
Ligand CLA a 827



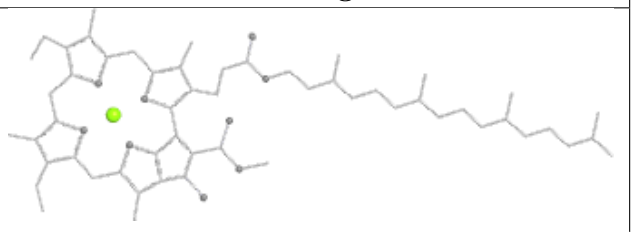
Bond lengths



Bond angles

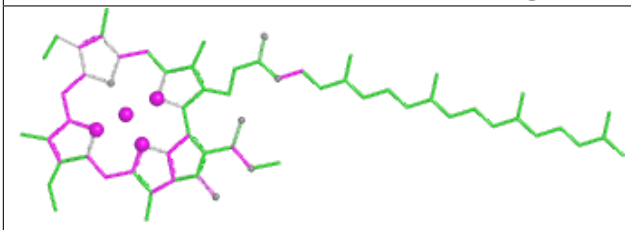


Torsions

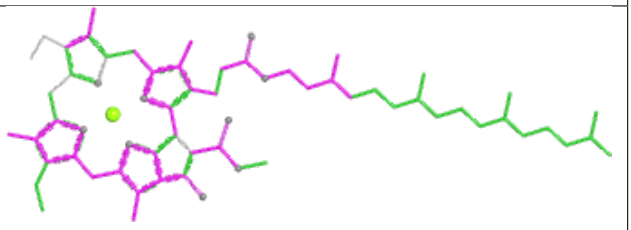


Rings

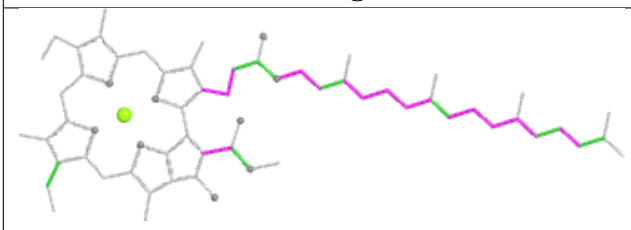
Ligand CLA H 801



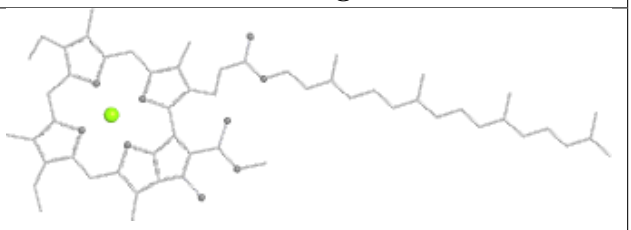
Bond lengths



Bond angles

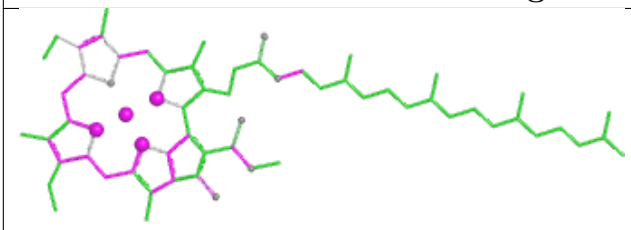


Torsions

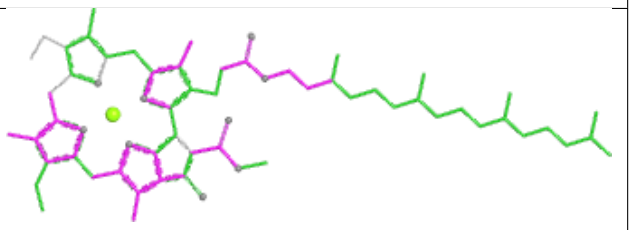


Rings

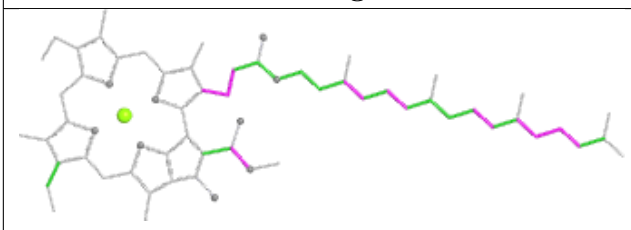
Ligand CLA b 827



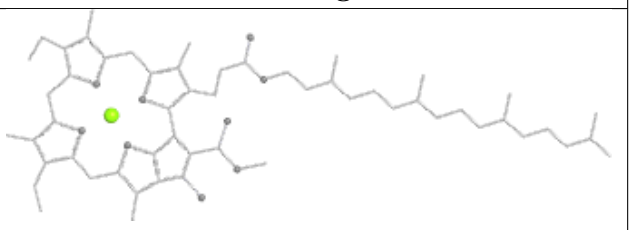
Bond lengths



Bond angles

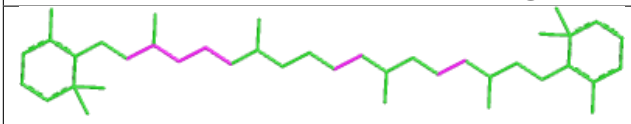


Torsions

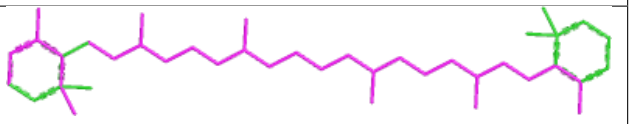


Rings

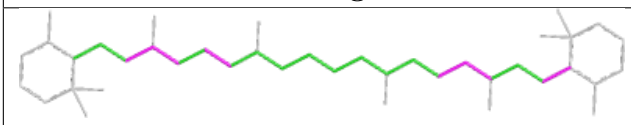
Ligand BCR R 102



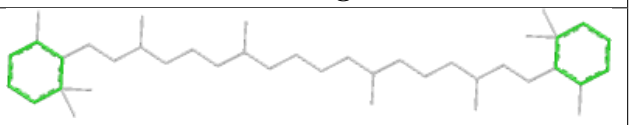
Bond lengths



Bond angles

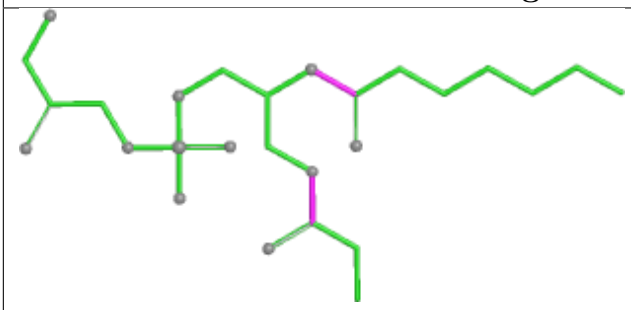


Torsions

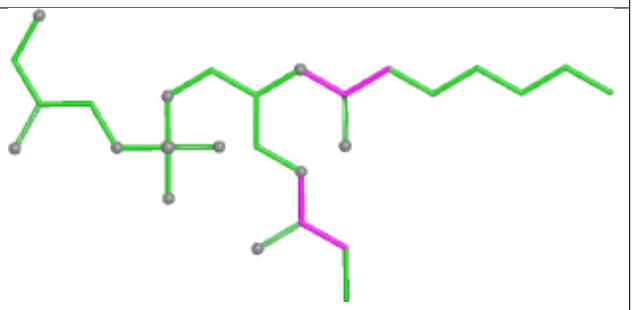


Rings

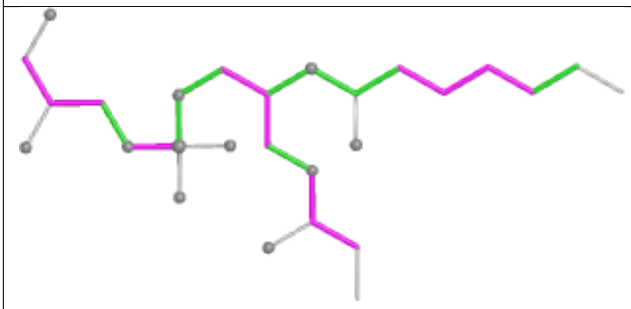
Ligand LHG A 855



Bond lengths



Bond angles



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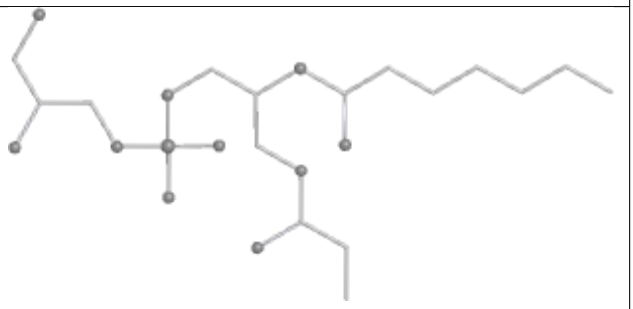
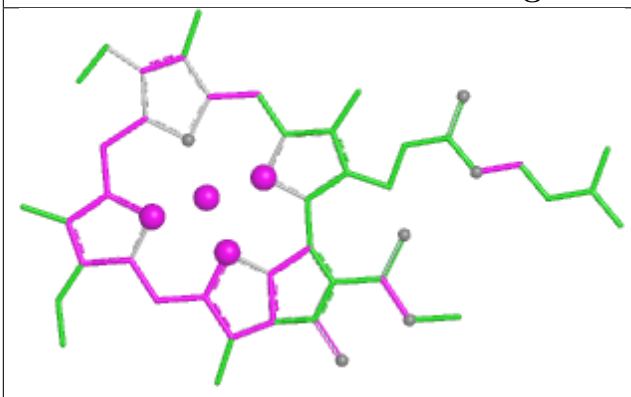
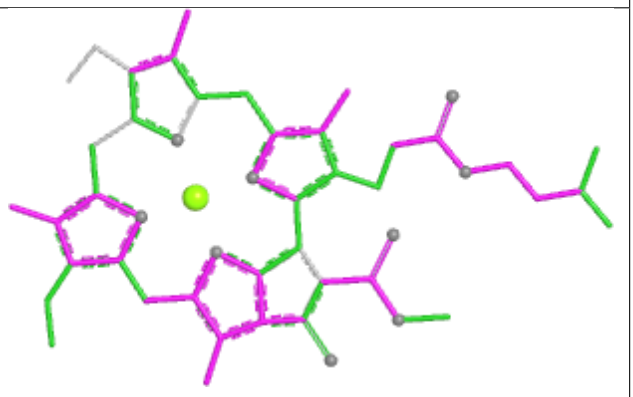


Rings

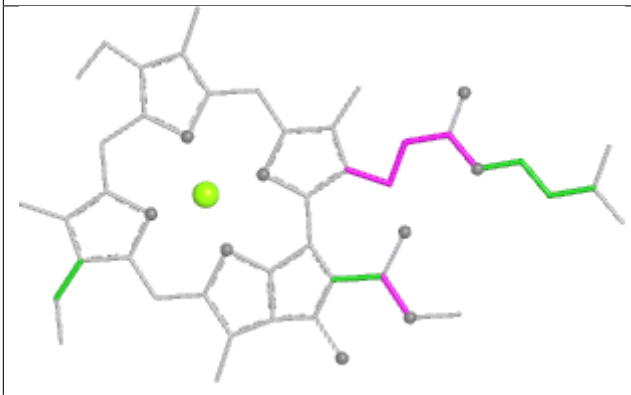
Ligand CLA A 819



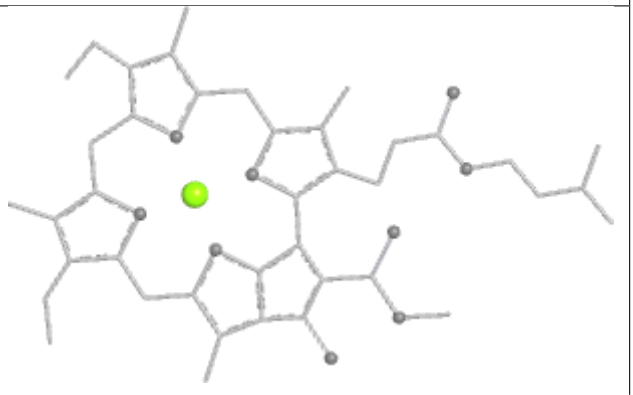
Bond lengths



Bond angles

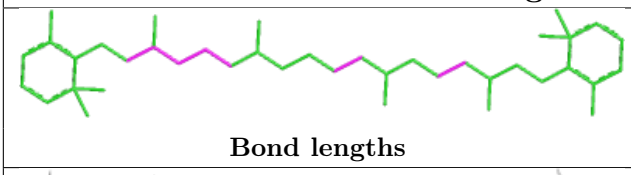


Torsions

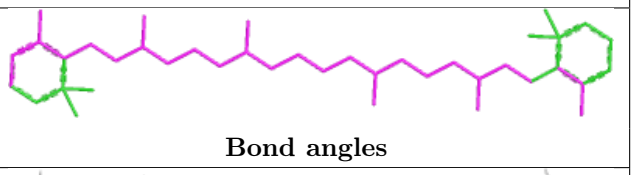


Rings

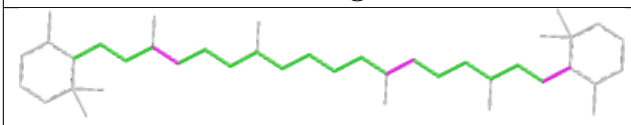
Ligand BCR b 846



Bond lengths



Bond angles



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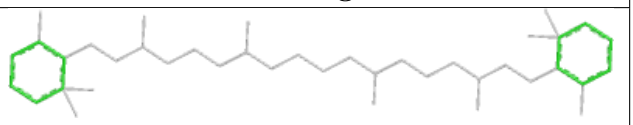
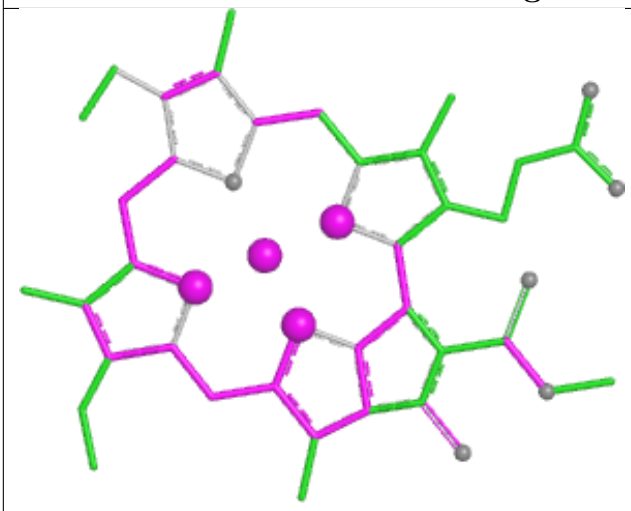


Rings

Ligand CLA A 815



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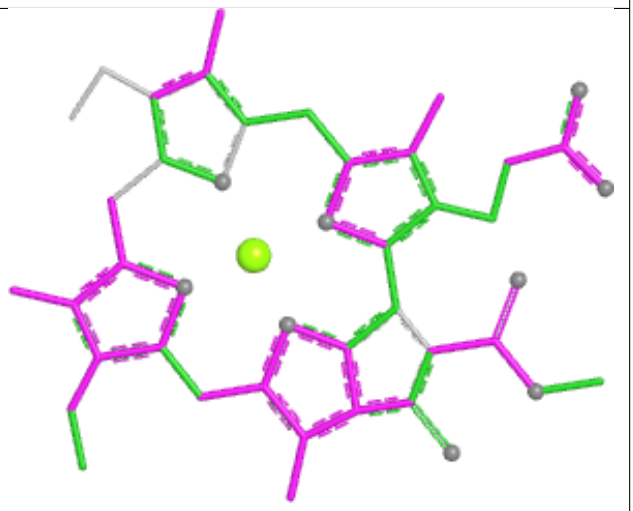
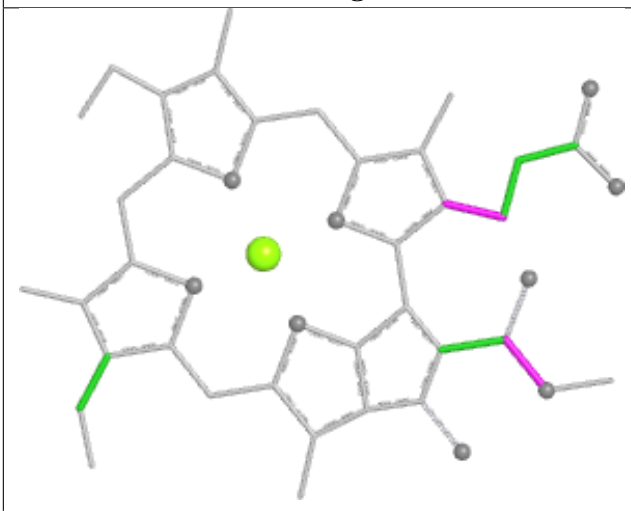
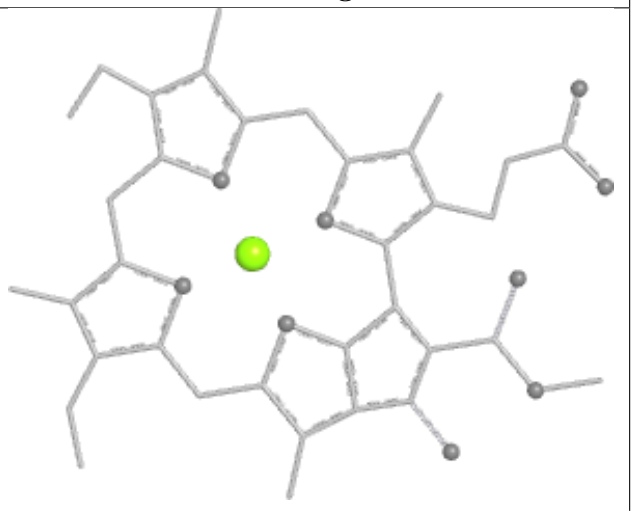


Bond angles

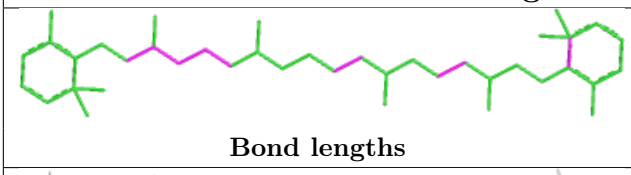


Torsions

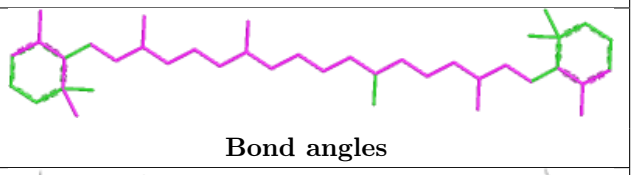


Rings

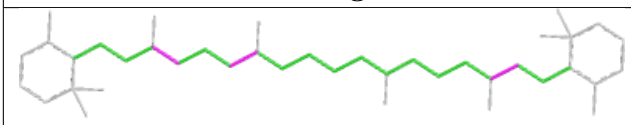
Ligand BCR B 843



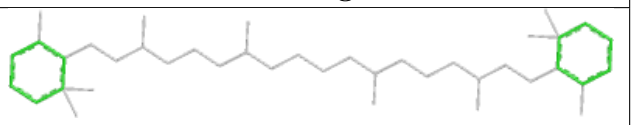
Bond lengths



Bond angles

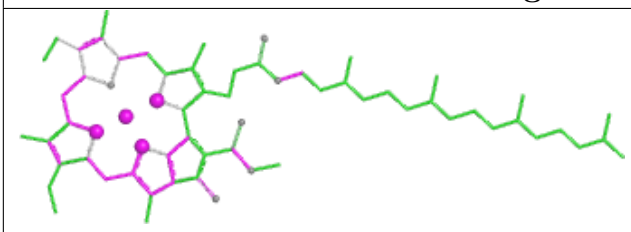


Torsions

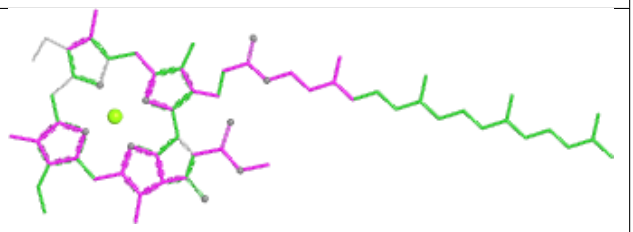


Rings

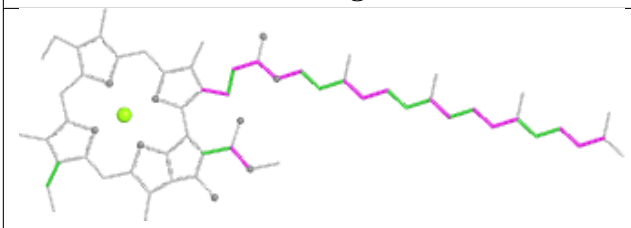
Ligand CLA A 807



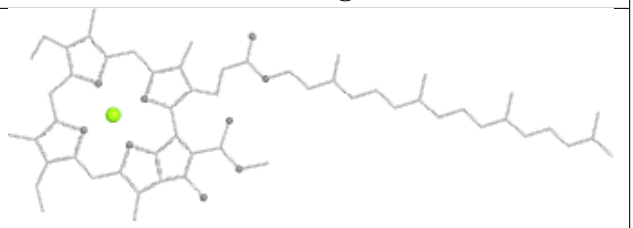
Bond lengths



Bond angles

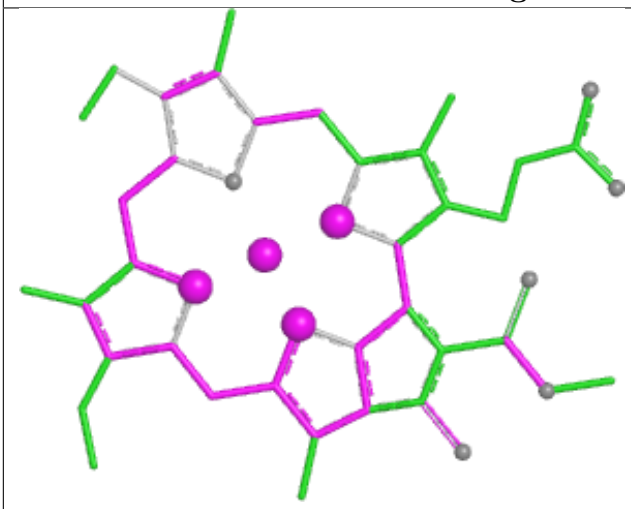


Torsions

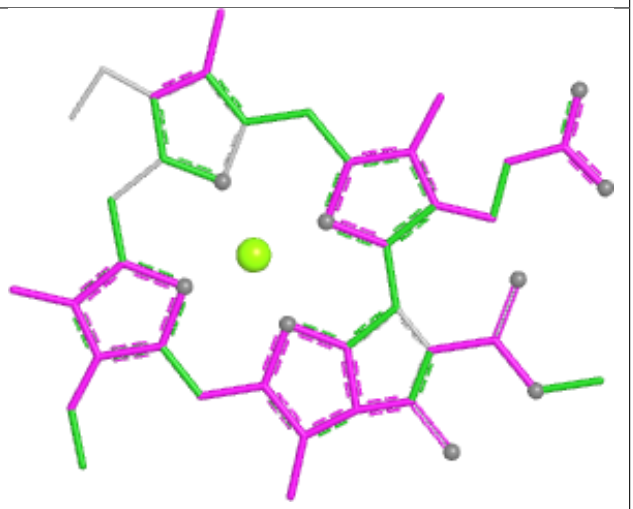


Rings

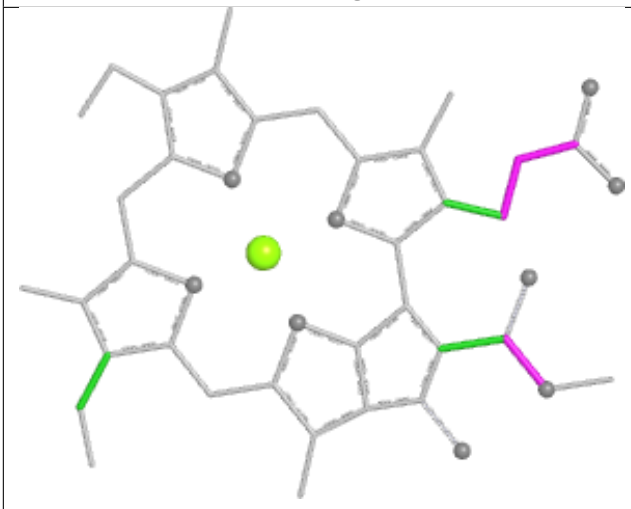
Ligand CLA W 1701



Bond lengths



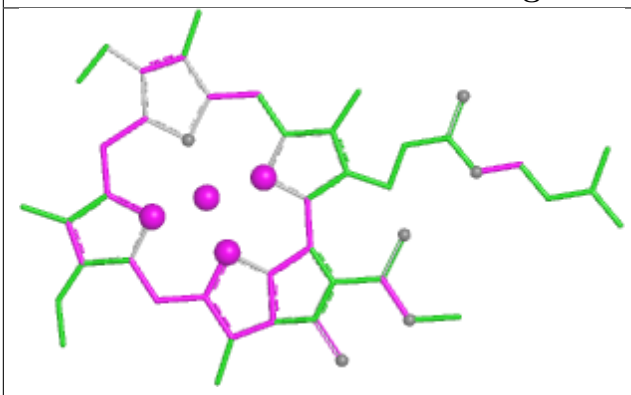
Bond angles



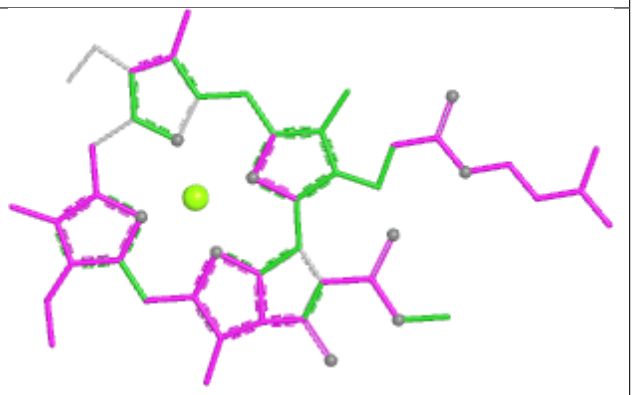
Torsions

Rings

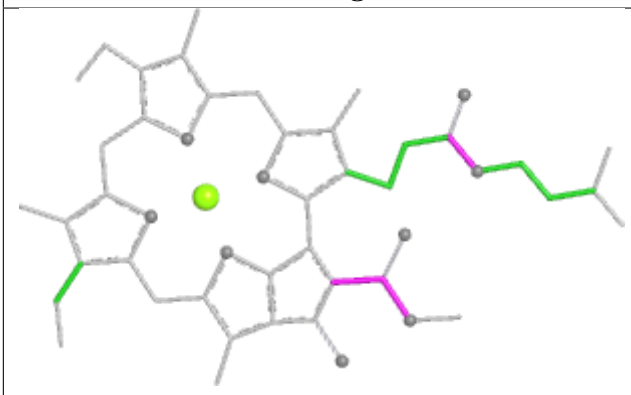
Ligand CLA G 838



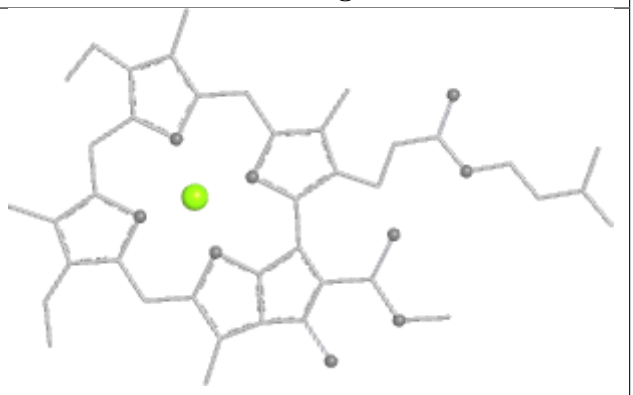
Bond lengths



Bond angles

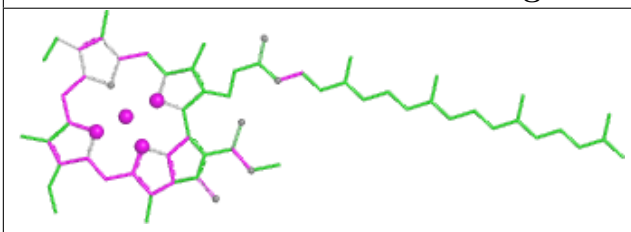


Torsions

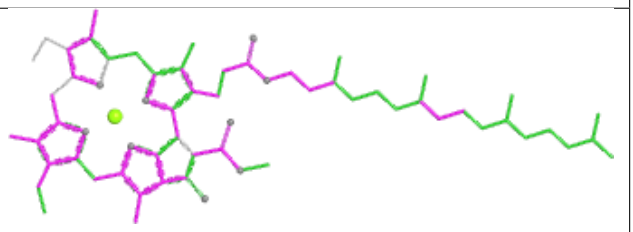


Rings

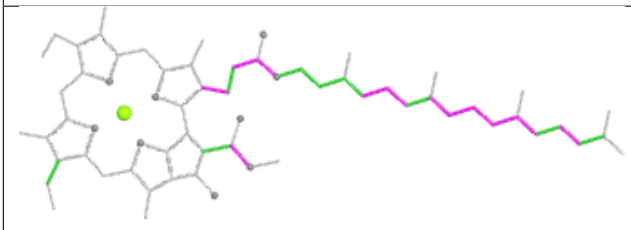
Ligand CLA H 812



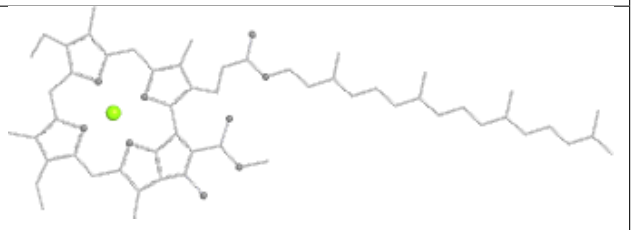
Bond lengths



Bond angles

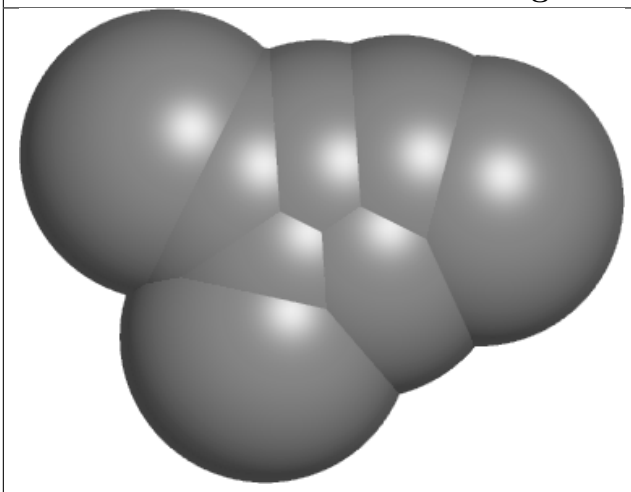


Torsions



Rings

Ligand SF4 C 101



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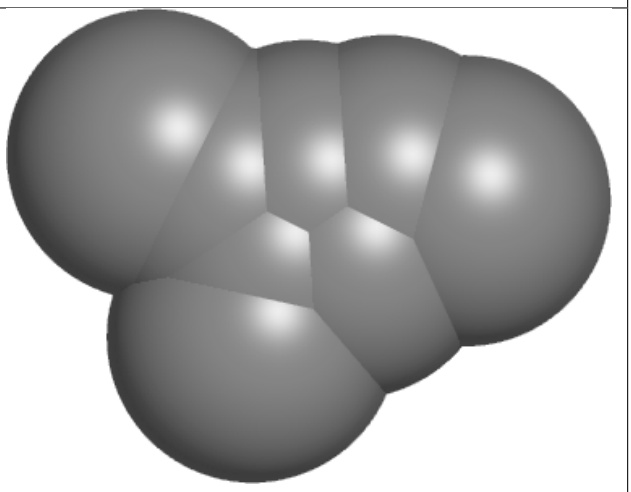
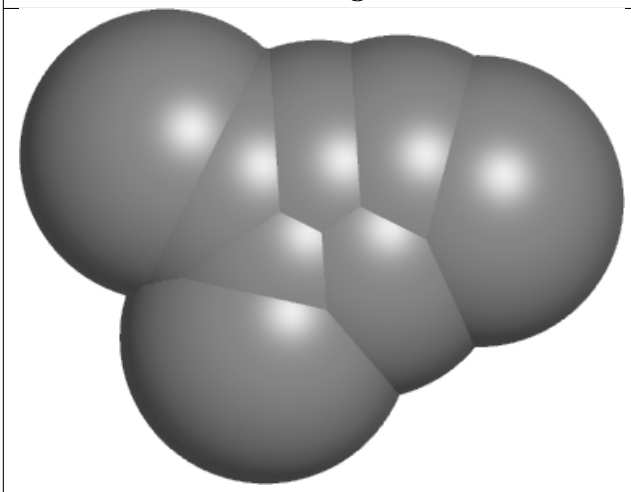
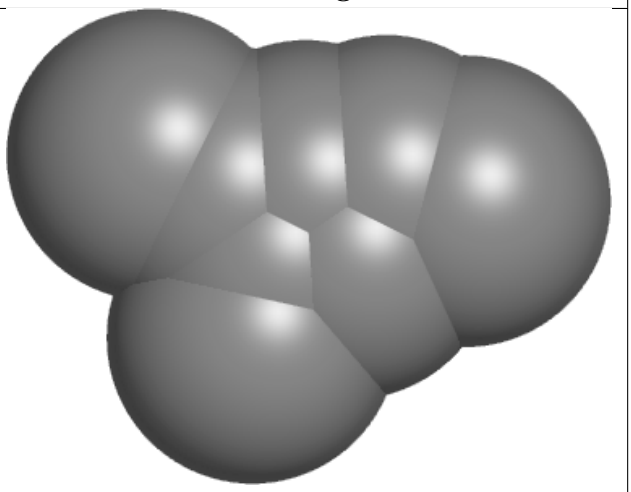


Bond angles

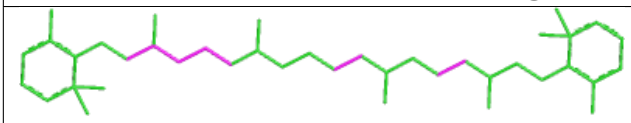


Torsions



Rings

Ligand BCR b 842



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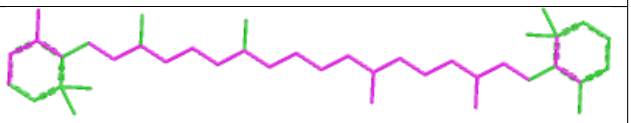
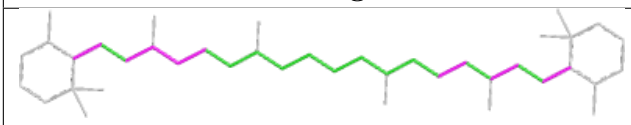
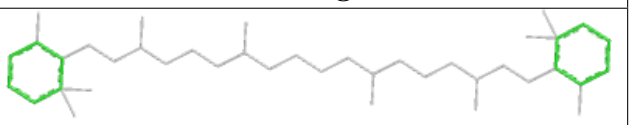


Bond angles

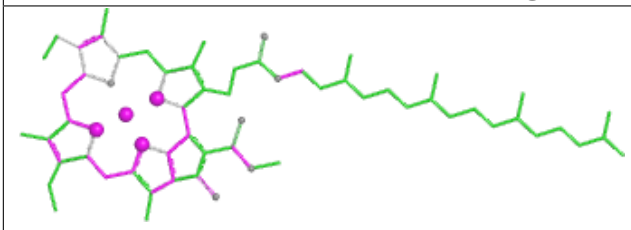


Torsions



Rings

Ligand CLA A 802



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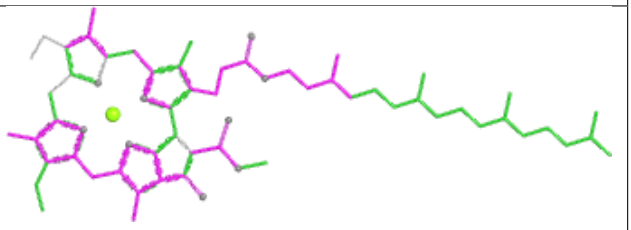
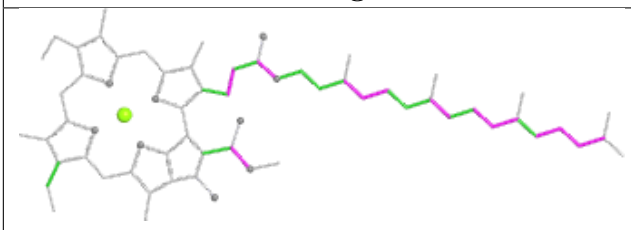


Bond angles



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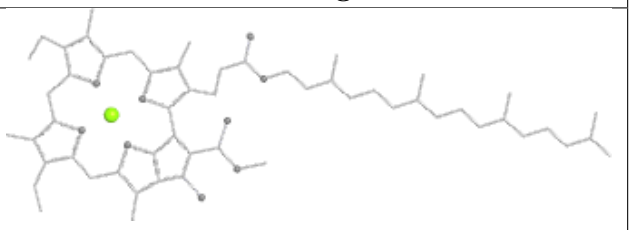
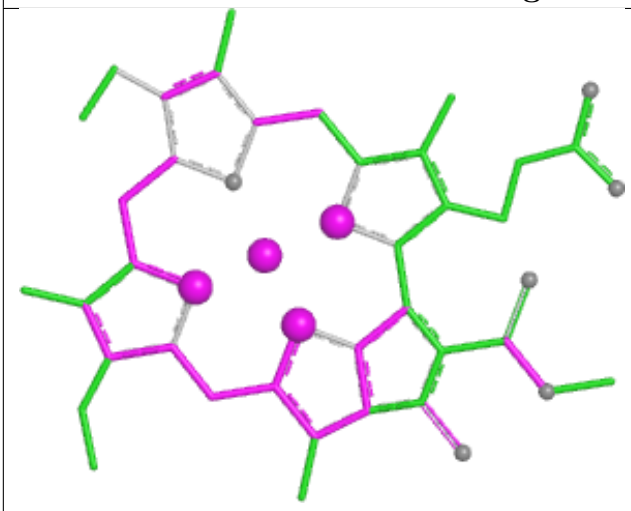


Rings

Ligand CLA G 840



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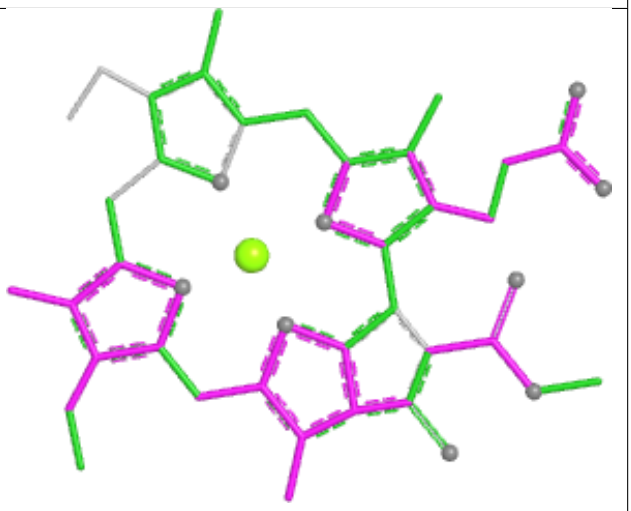
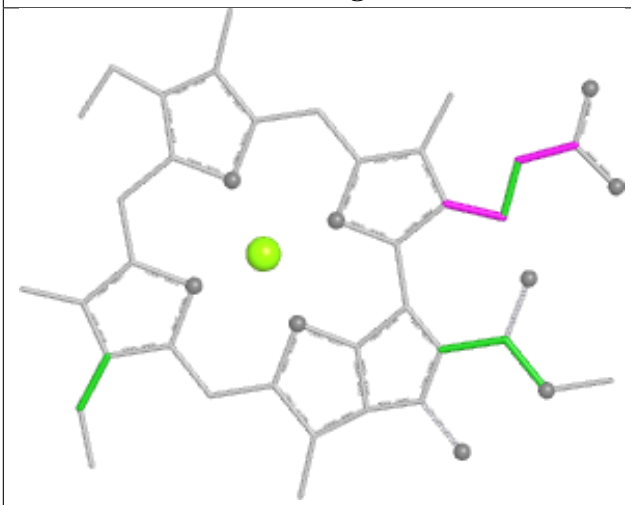


Bond angles



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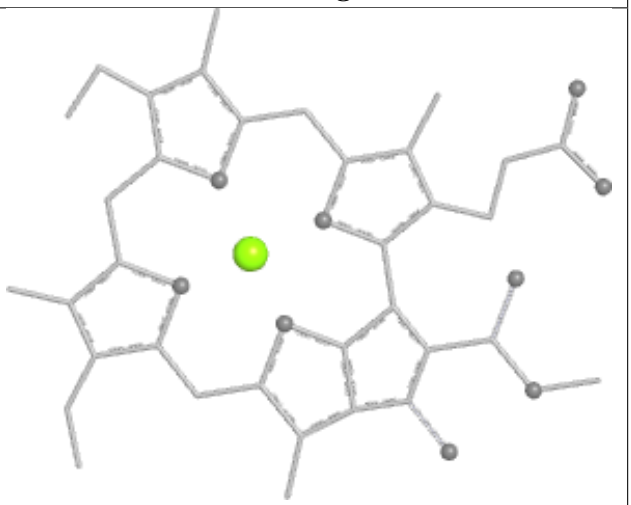
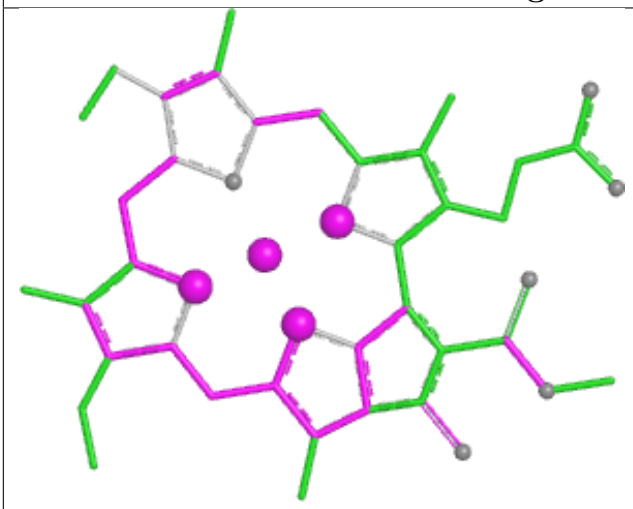


Rings

Ligand CLA b 824



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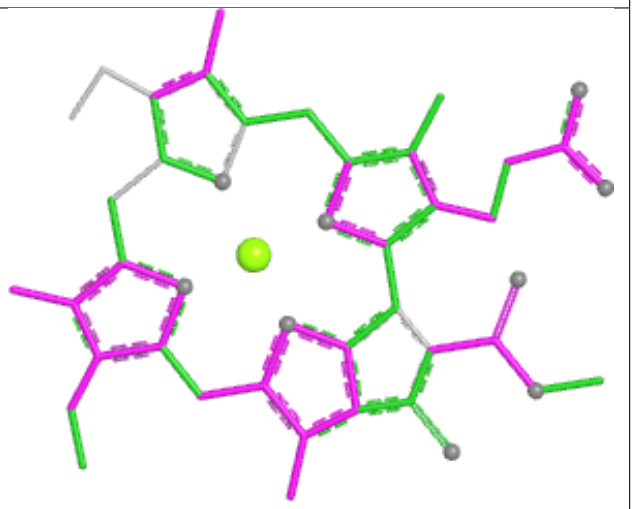
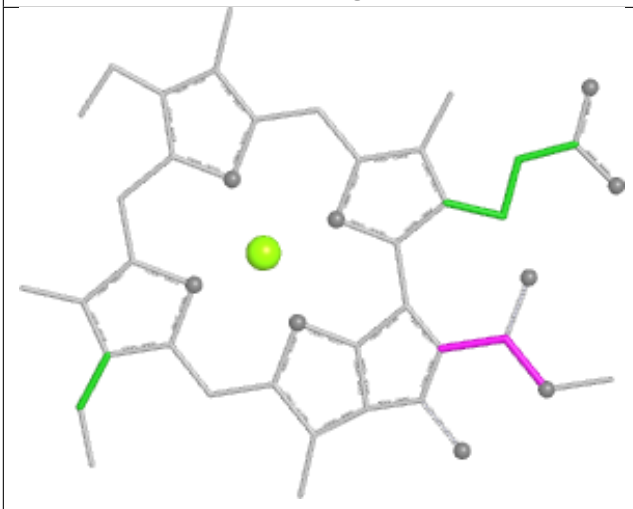


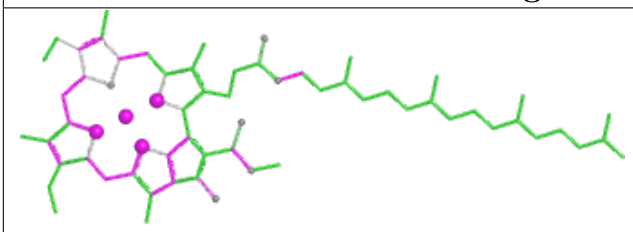
Bond angles



Torsions

Rings

Ligand CLA H 802



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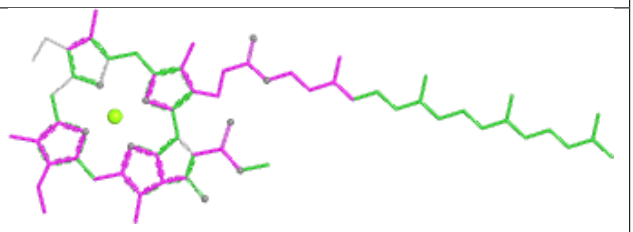
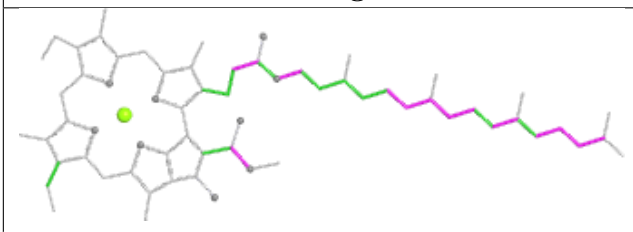


Bond angles



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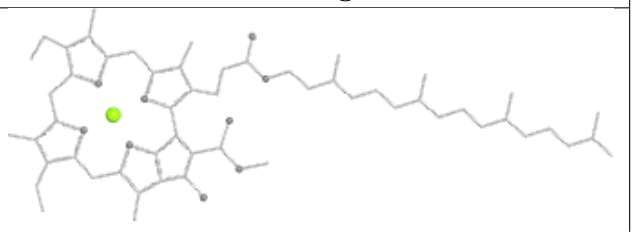
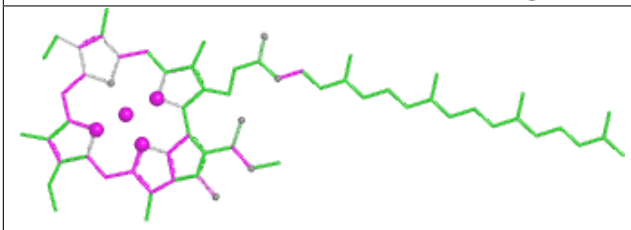


Rings

Ligand CLA H 839



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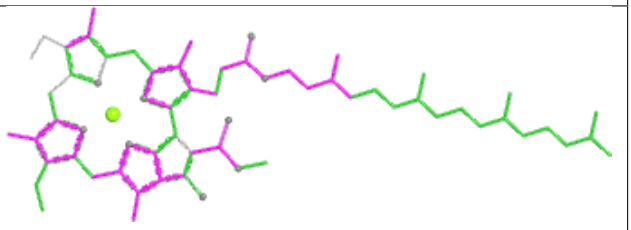
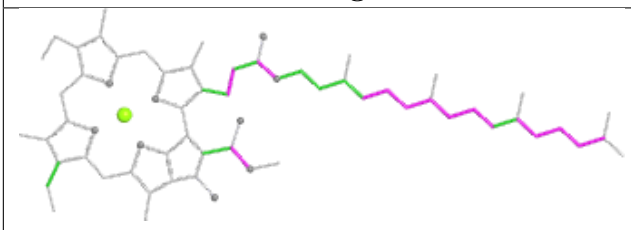


Bond angles



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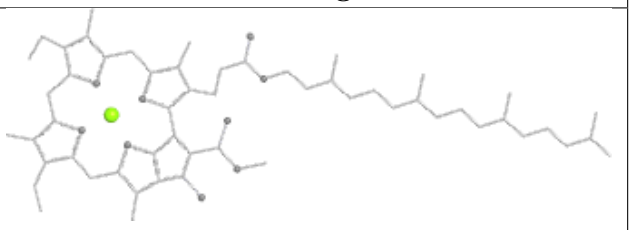
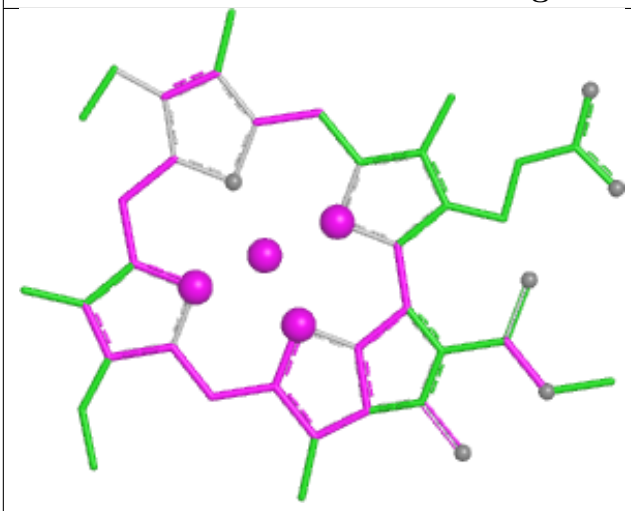


Rings

Ligand CLA j 101



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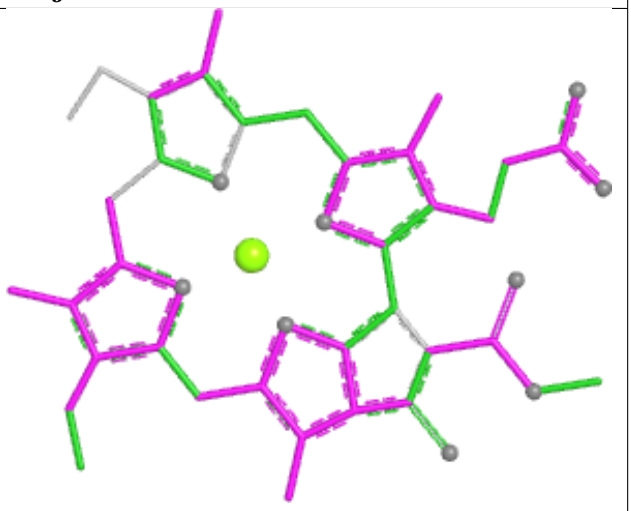
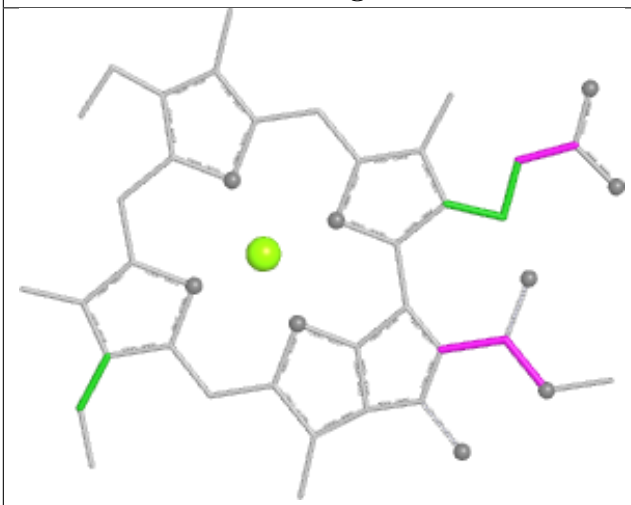
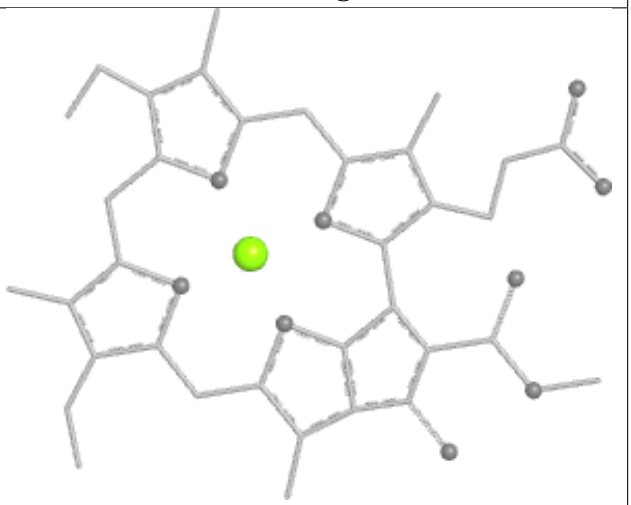


Bond angles

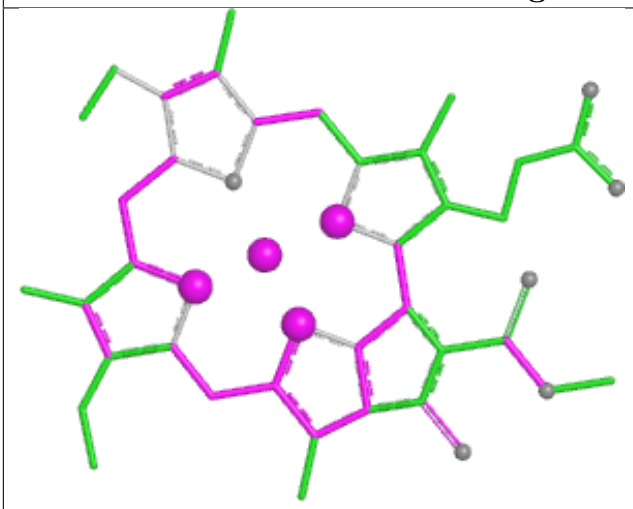


Torsions



Rings

Ligand CLA a 844



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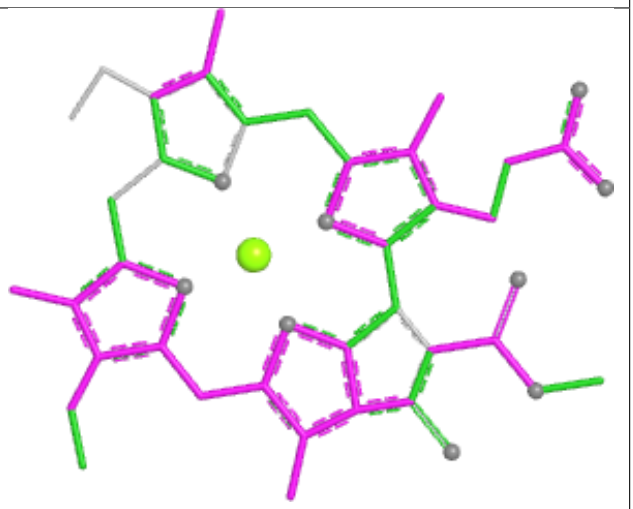
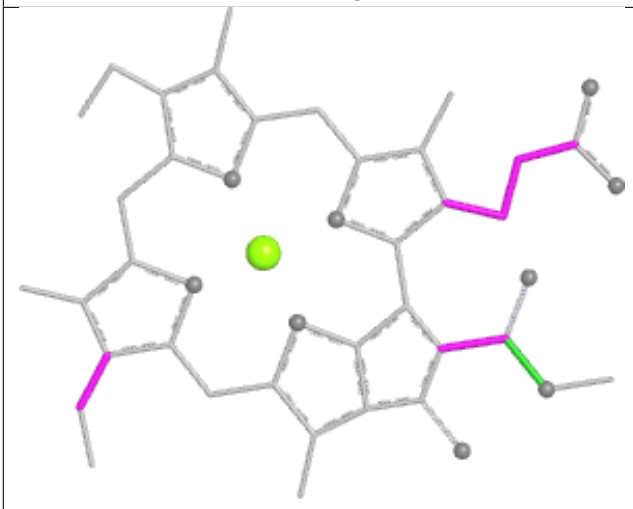


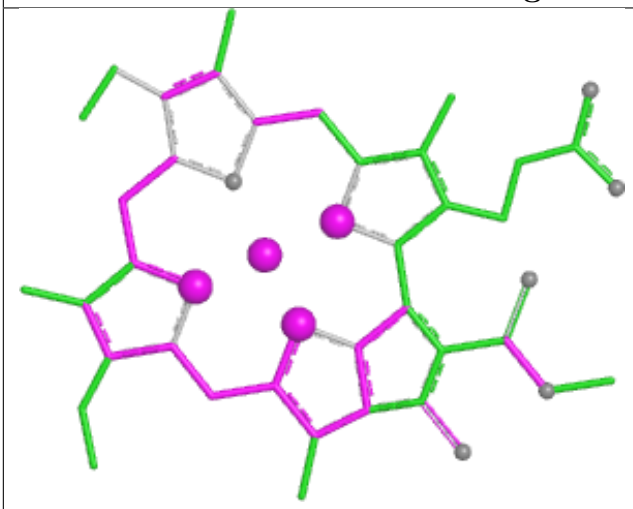
Bond angles



Torsions

Rings

Ligand CLA A 840



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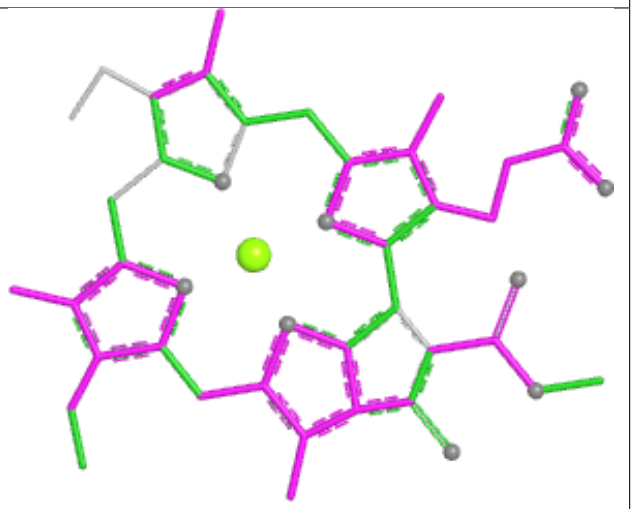

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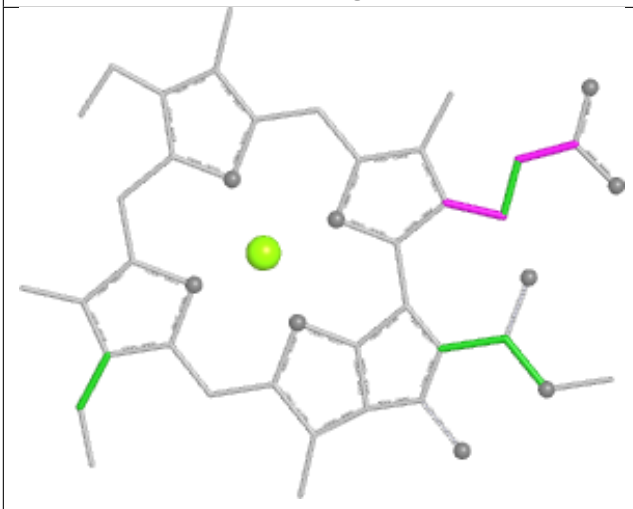
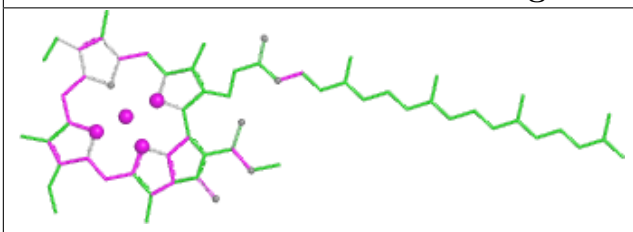


Torsions

Rings

Ligand CLA a 830



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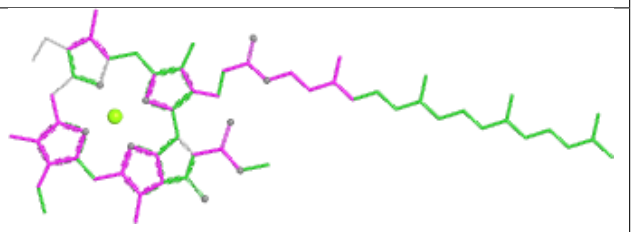
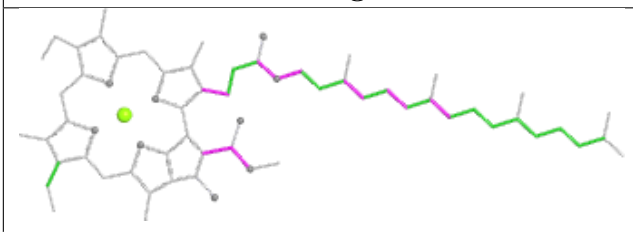
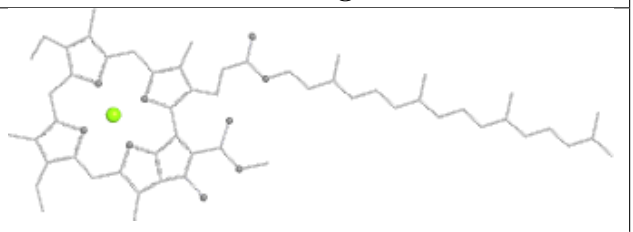


Bond angles

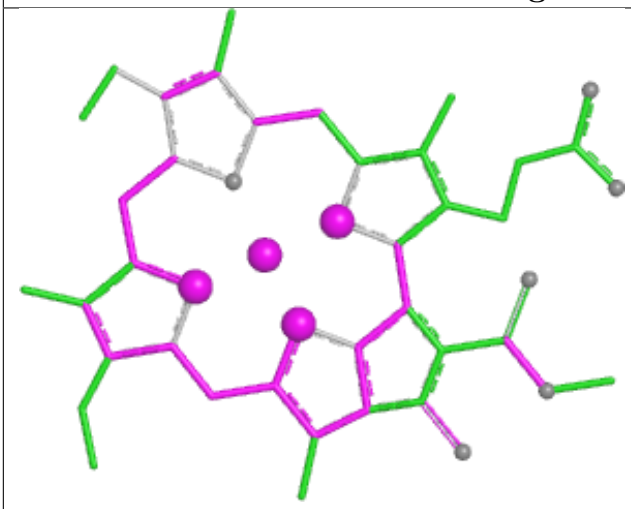


Torsions



Rings

Ligand CLA a 816



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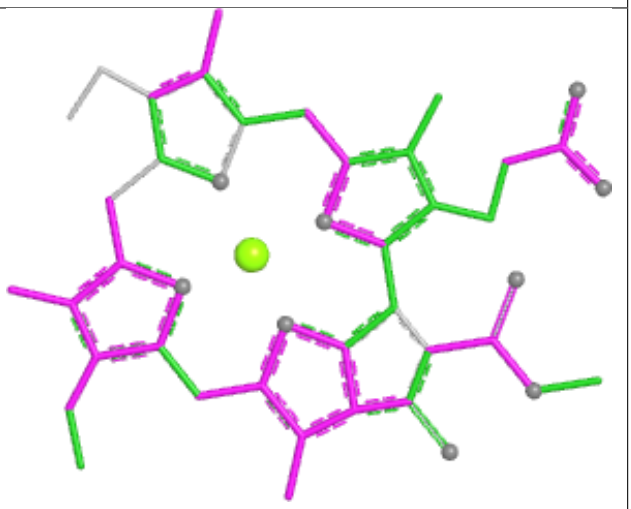
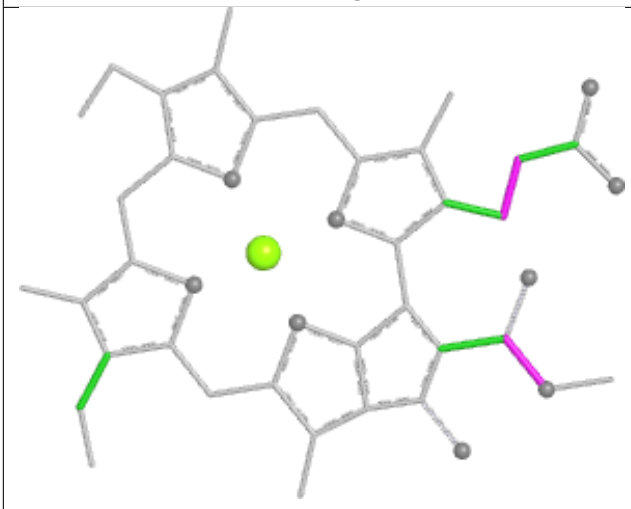


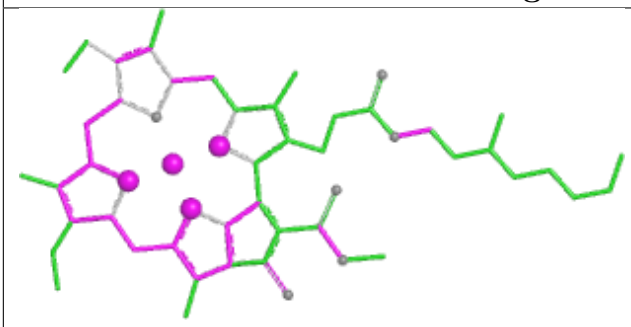
Bond angles



Torsions

Rings

Ligand CLA H 804



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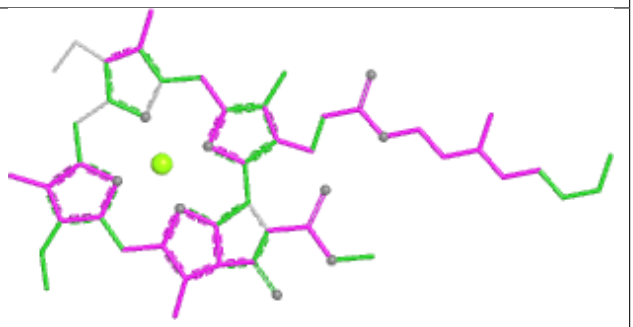
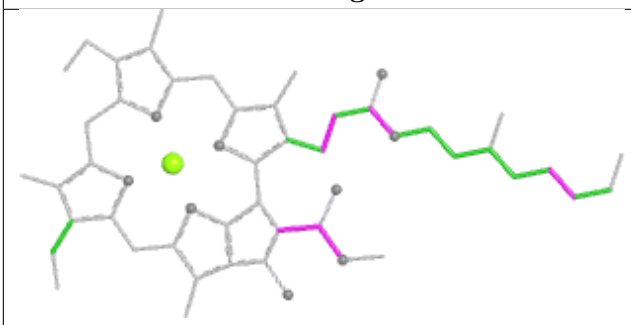
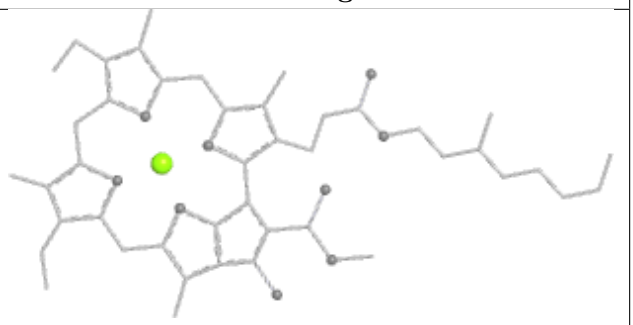


Bond angles

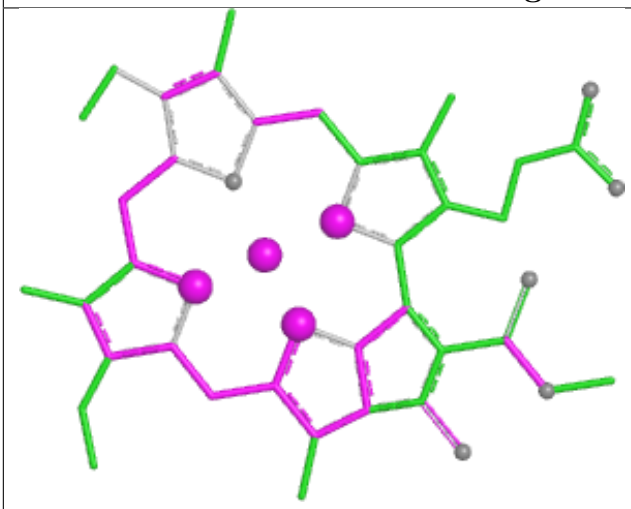


Torsions



Rings

Ligand CLA B 830



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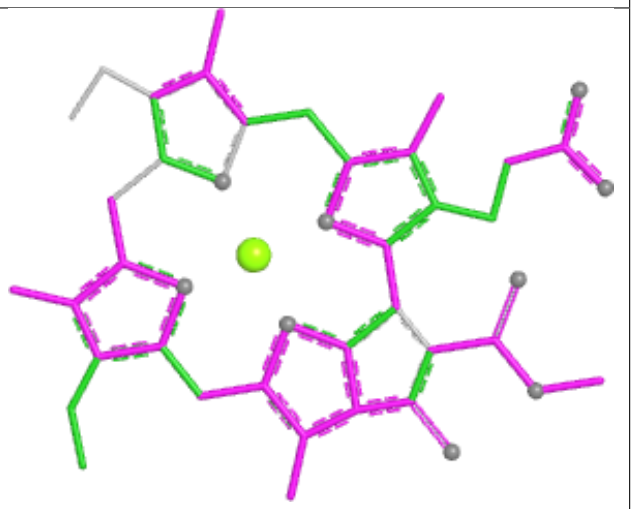
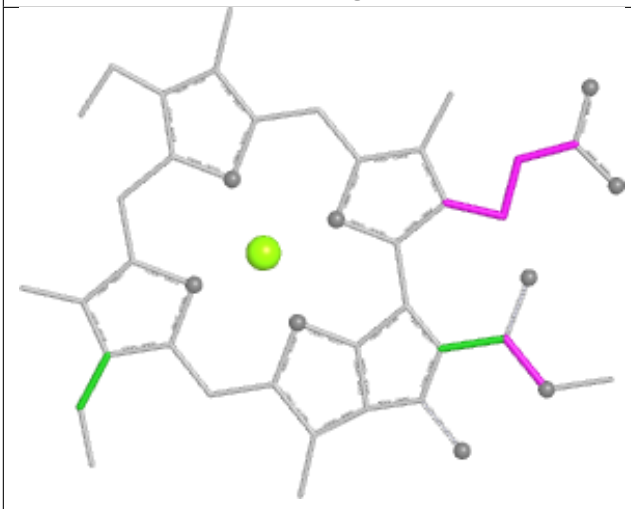


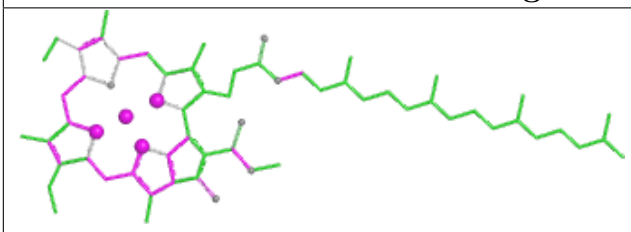
Bond angles



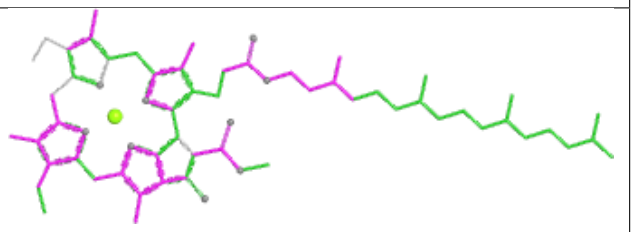
Torsions

Rings

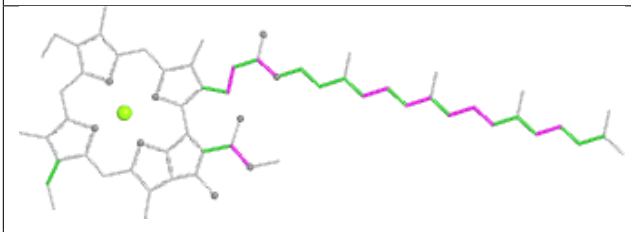
Ligand CLA G 810



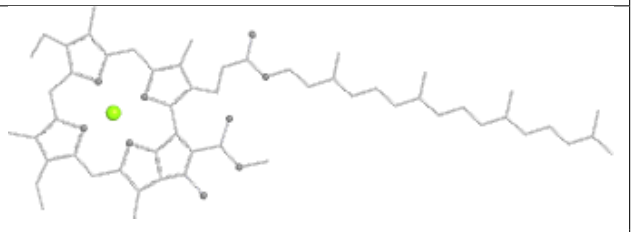
Bond lengths



Bond angles

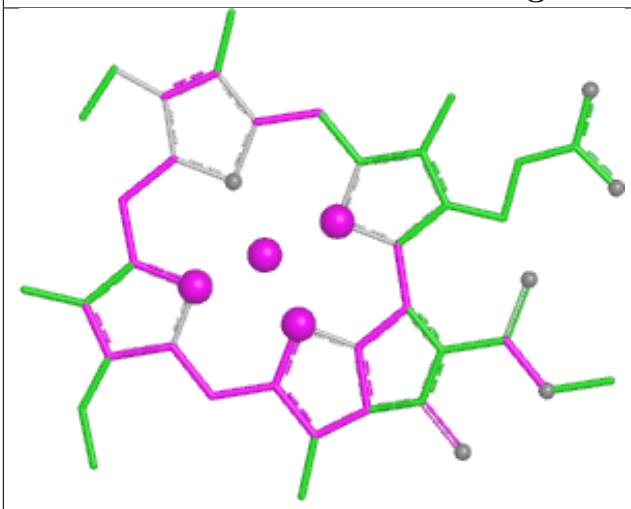


Torsions

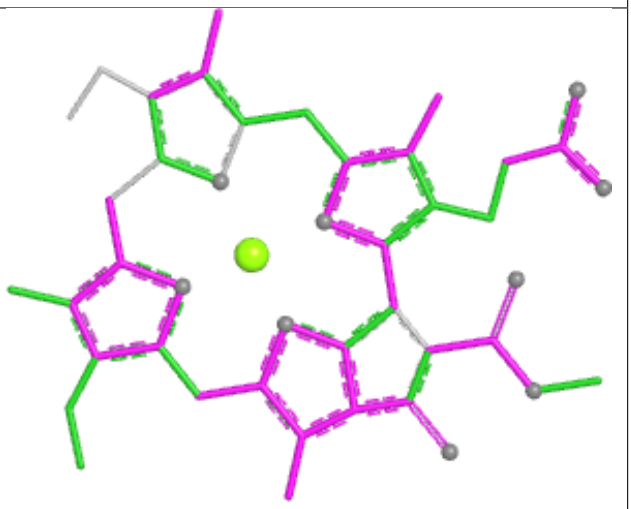


Rings

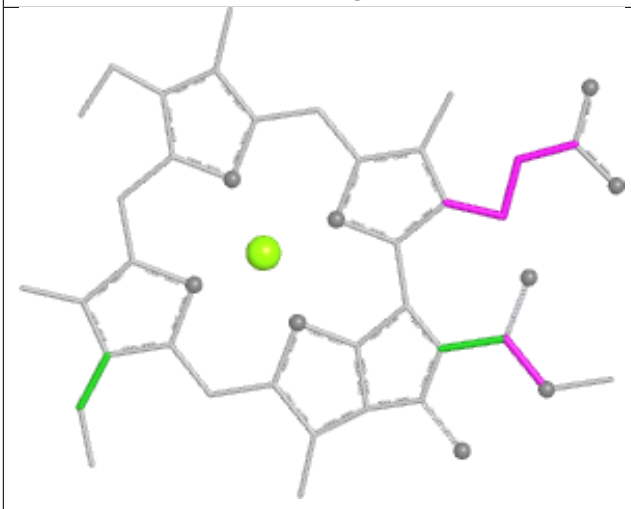
Ligand CLA b 830



Bond lengths



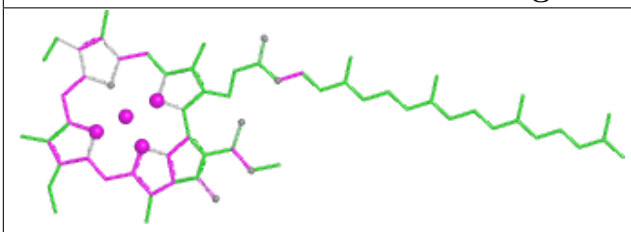
Bond angles



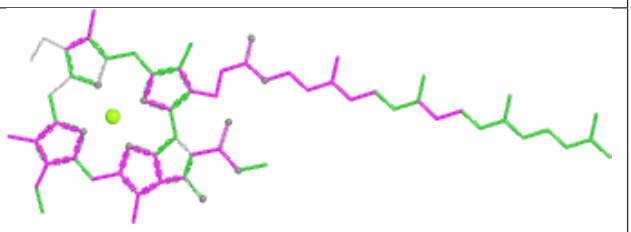
Torsions

Rings

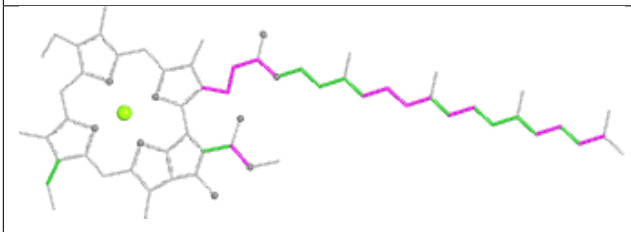
Ligand CLA l 207



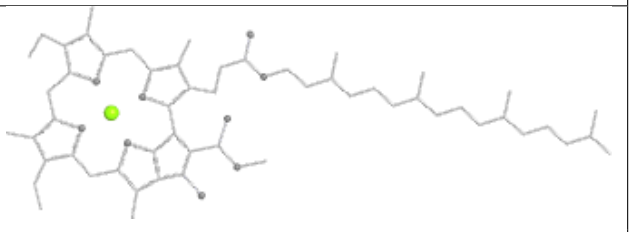
Bond lengths



Bond angles

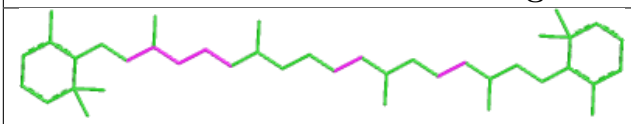


Torsions

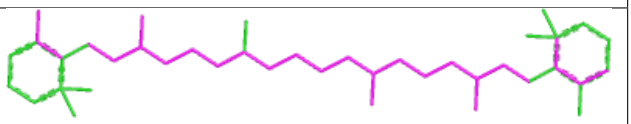


Rings

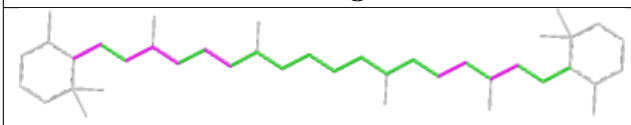
Ligand BCR a 847



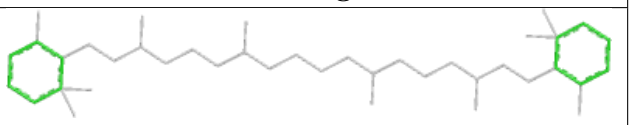
Bond lengths



Bond angles

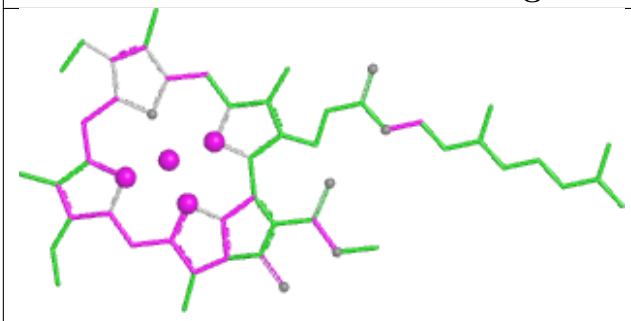


Torsions

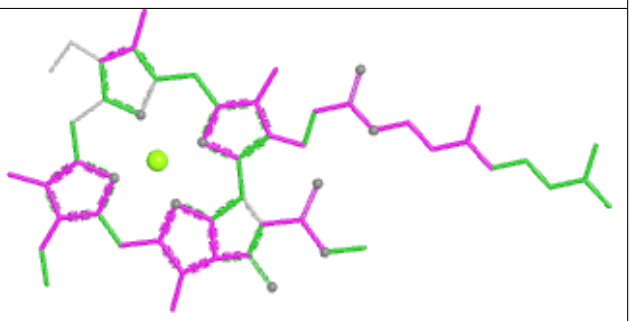


Rings

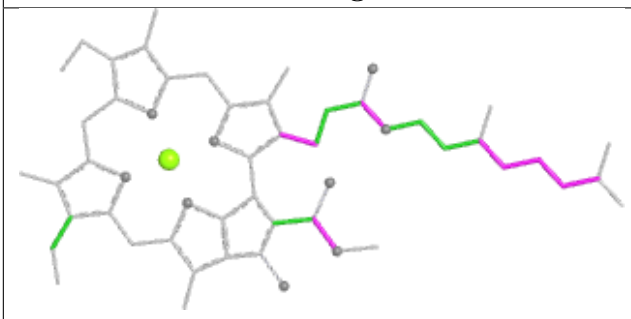
Ligand CLA A 833



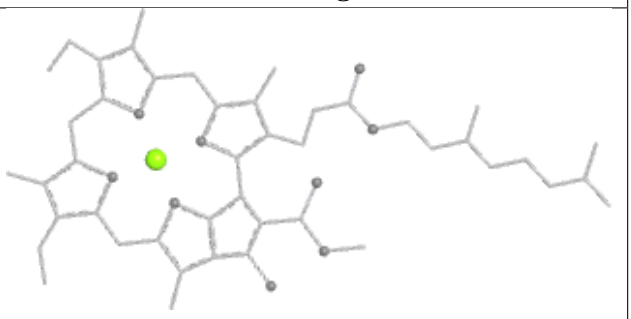
Bond lengths



Bond angles

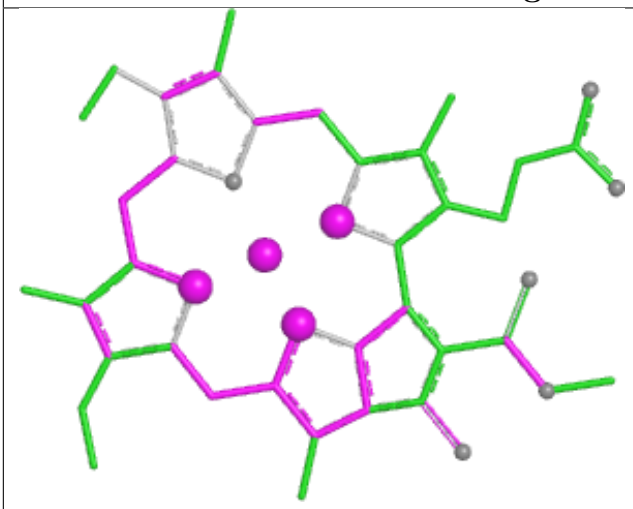


Torsions



Rings

Ligand CLA A 806



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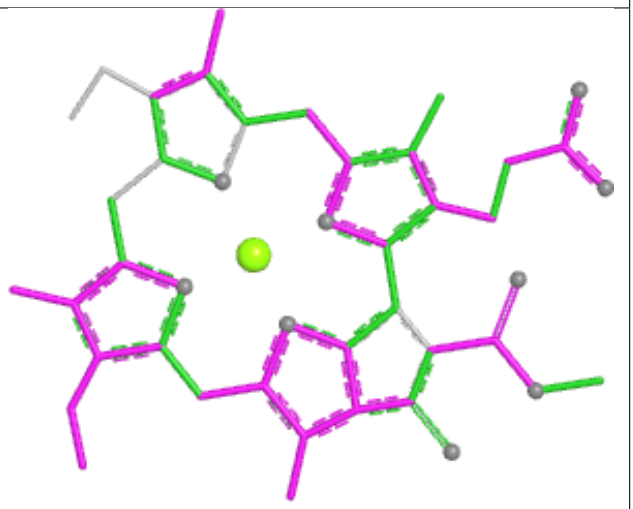
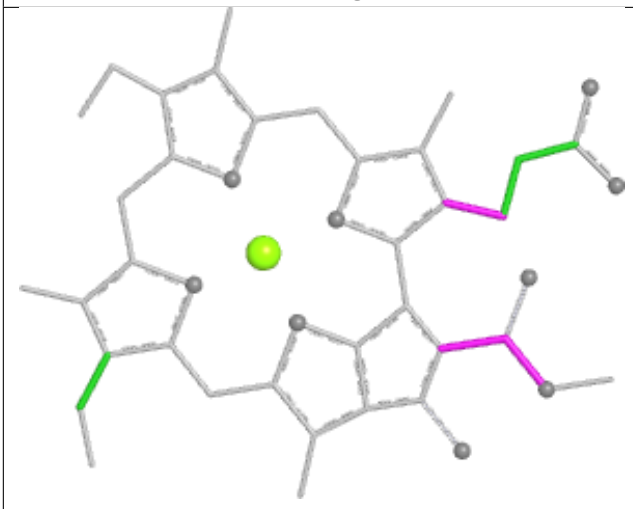


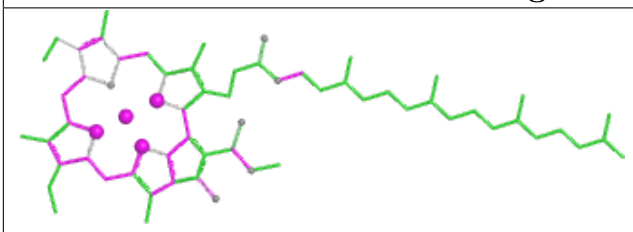
Bond angles



Torsions

Rings

Ligand CLA a 825



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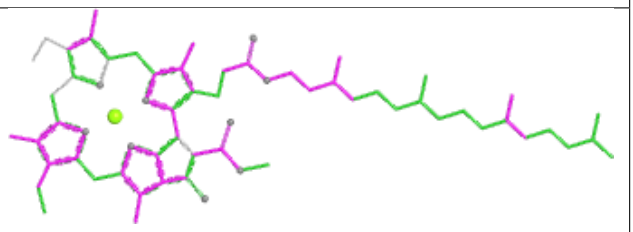
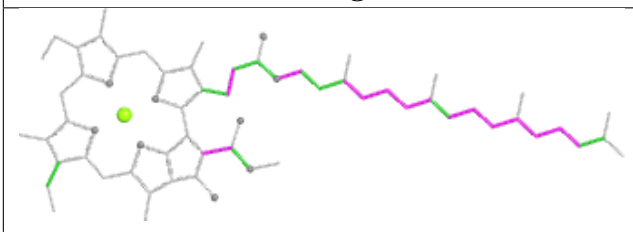
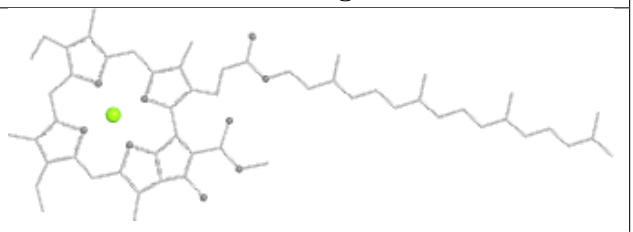


Bond angles

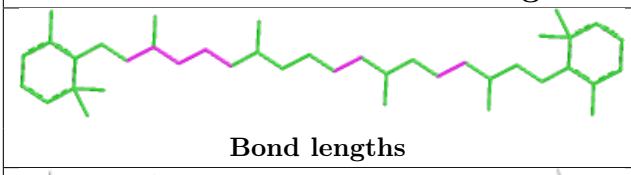


Torsions



Rings

Ligand BCR R 103



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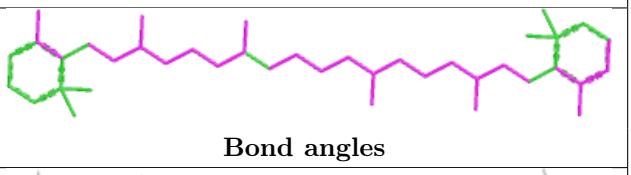
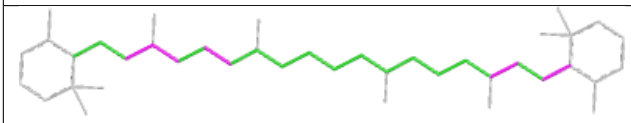
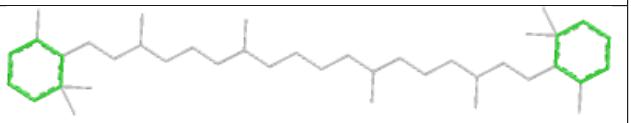


Bond angles

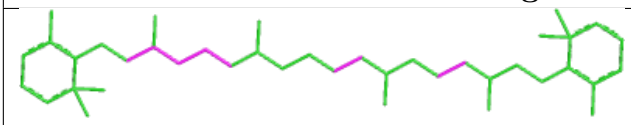


Torsions



Rings

Ligand BCR G 853



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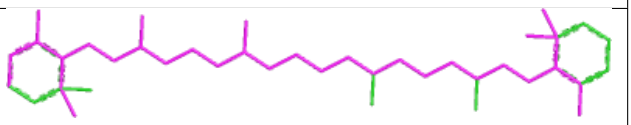
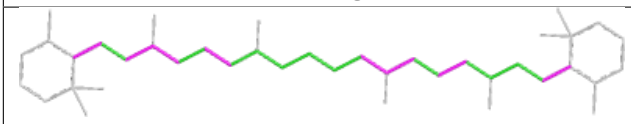
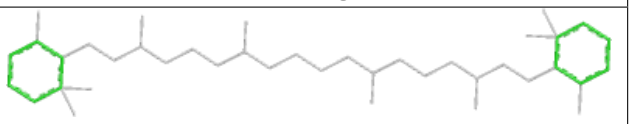


Bond angles

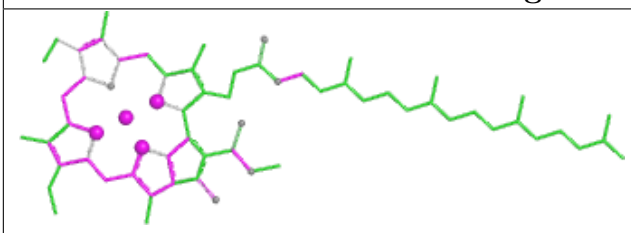


Torsions

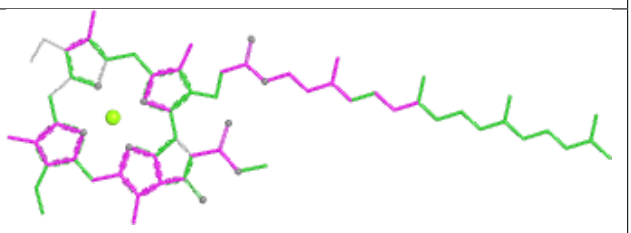


Rings

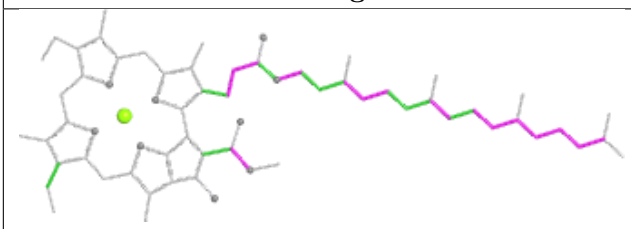
Ligand CLA B 831



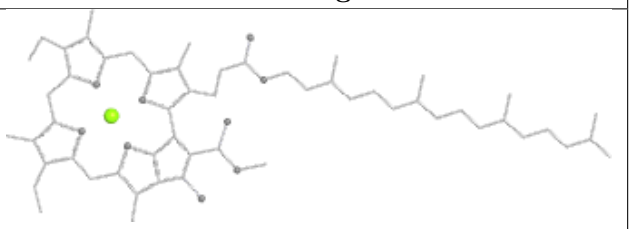
Bond lengths



Bond angles

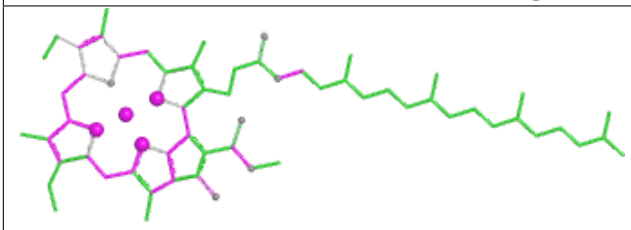


Torsions



Rings

Ligand CLA b 825



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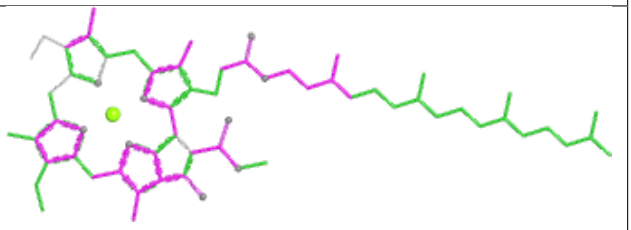
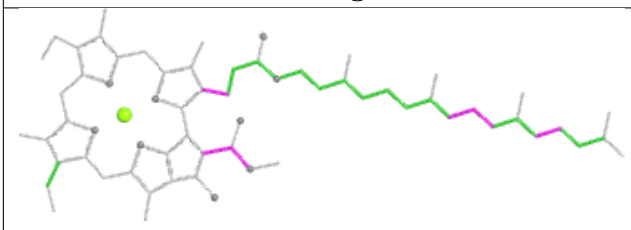
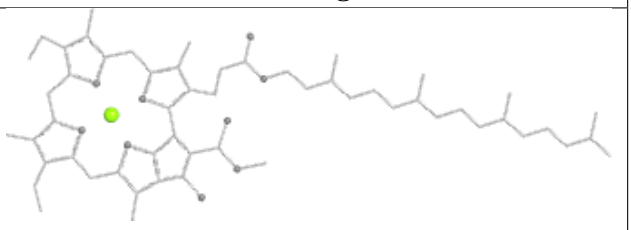


Bond angles

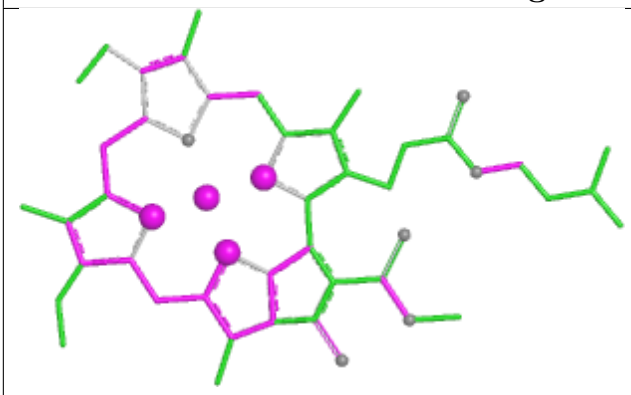


Torsions



Rings

Ligand CLA a 818



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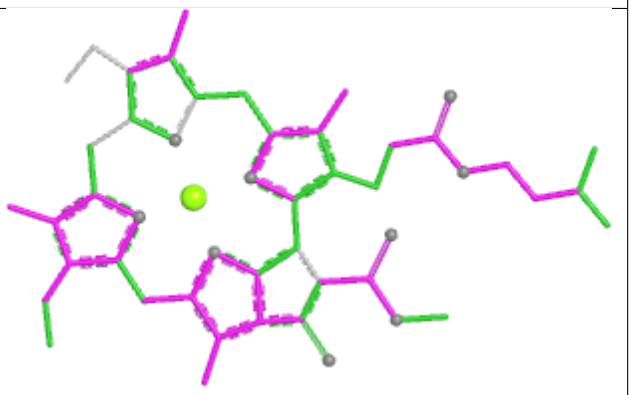
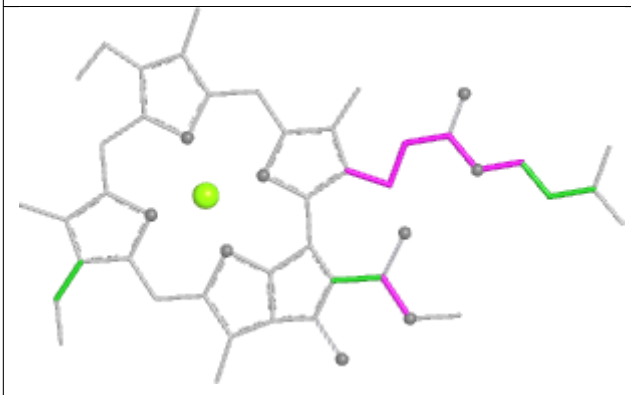
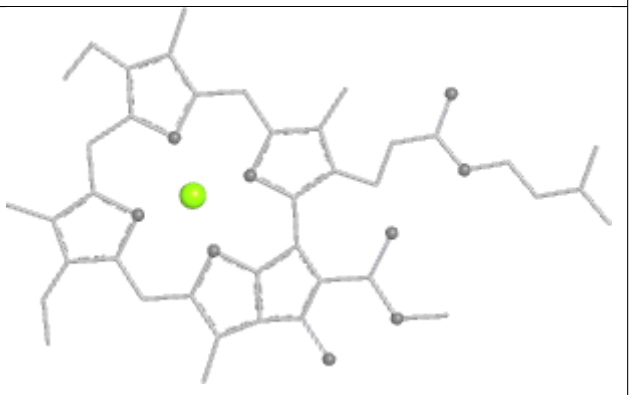


Bond angles

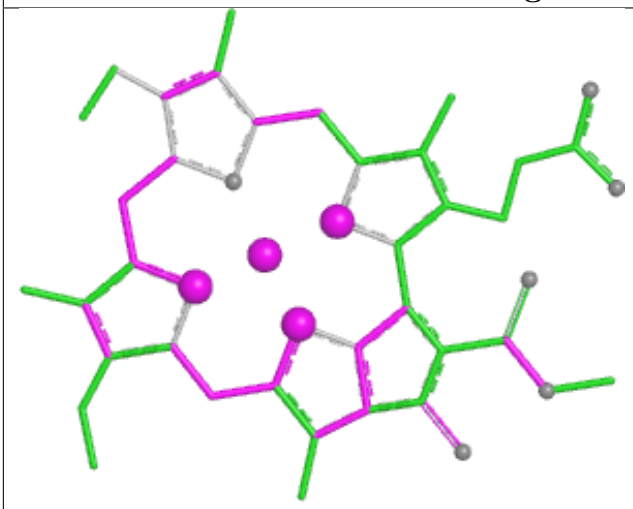


Torsions

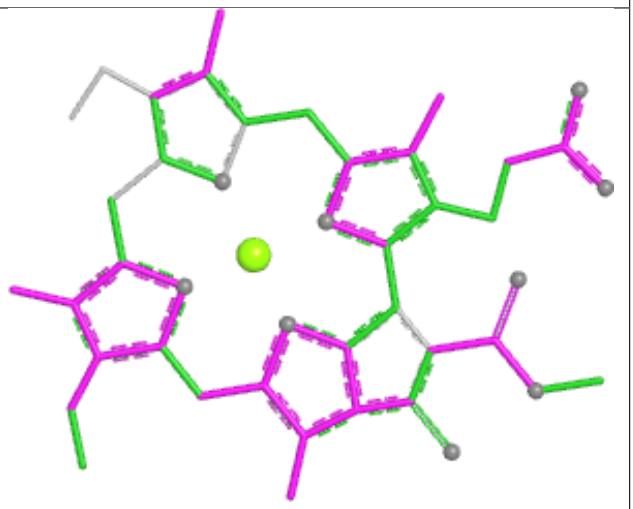


Rings

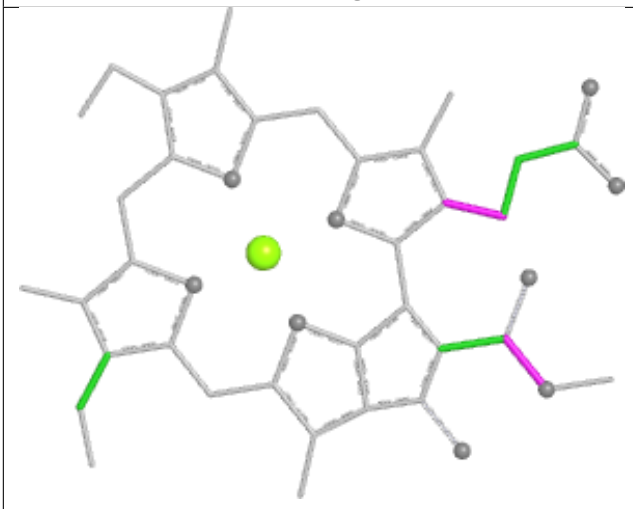
Ligand CLA B 822



Bond lengths



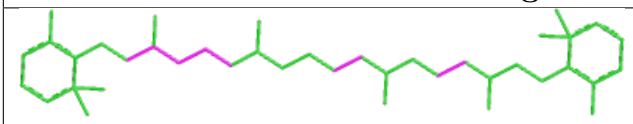
Bond angles



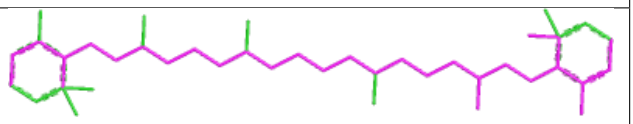
Torsions

Rings

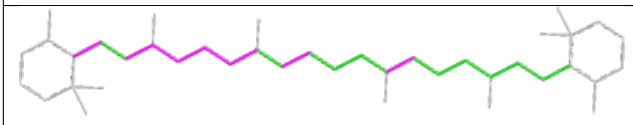
Ligand BCR G 850



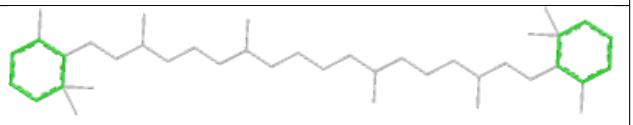
Bond lengths



Bond angles

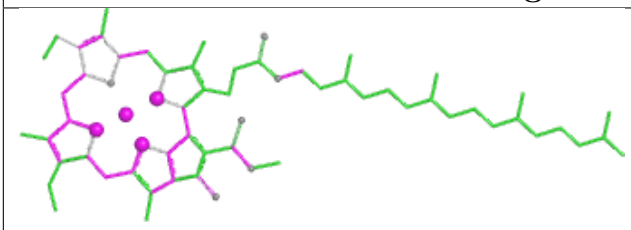


Torsions

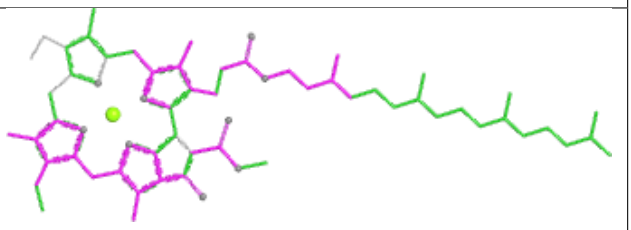


Rings

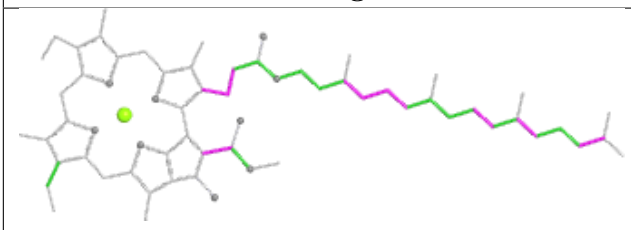
Ligand CLA B 801



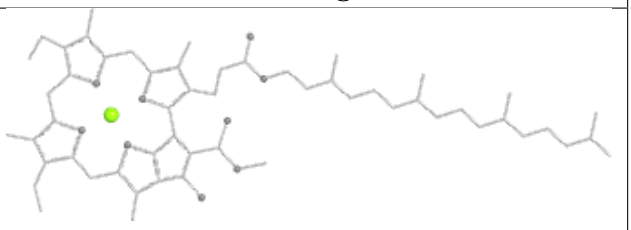
Bond lengths



Bond angles

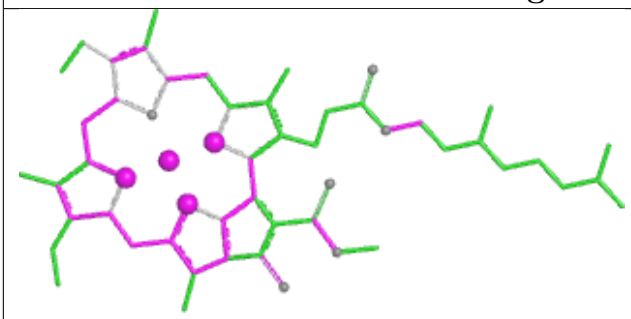


Torsions

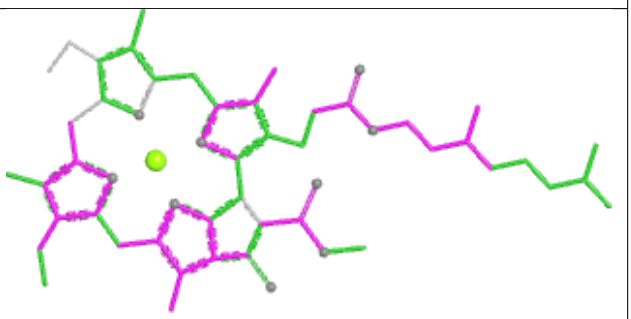


Rings

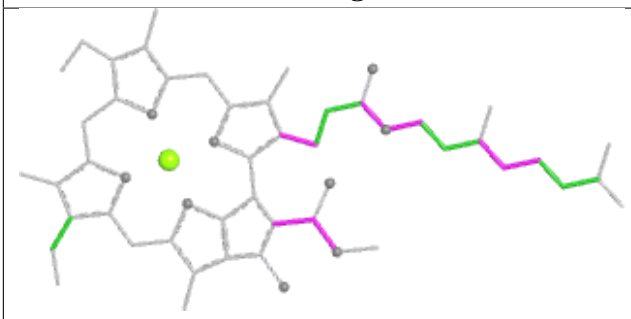
Ligand CLA b 832



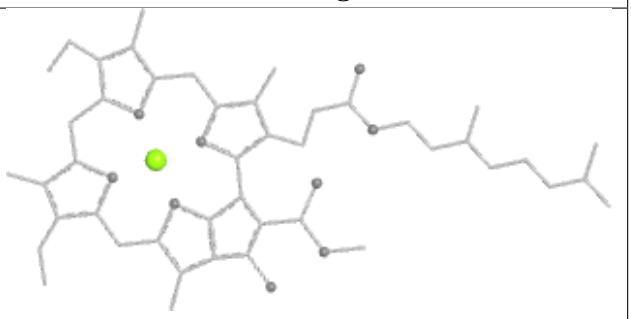
Bond lengths



Bond angles

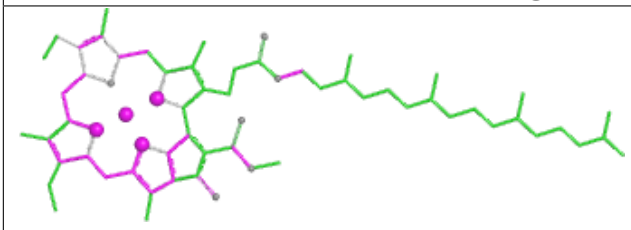


Torsions

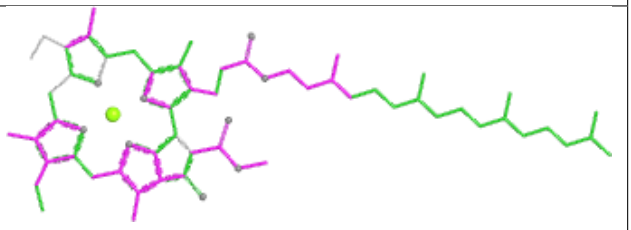


Rings

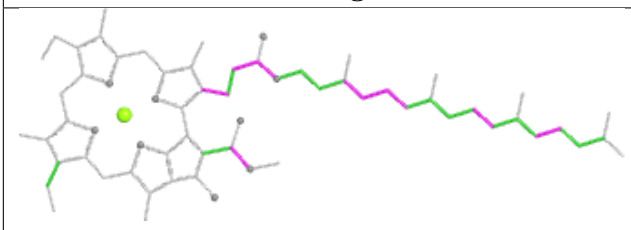
Ligand CLA b 818



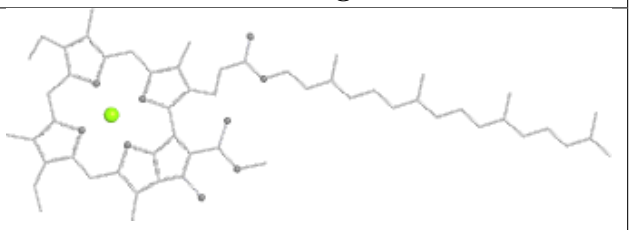
Bond lengths



Bond angles

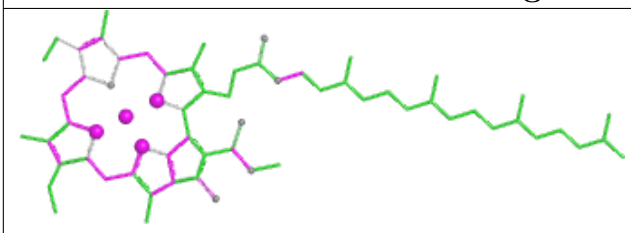


Torsions

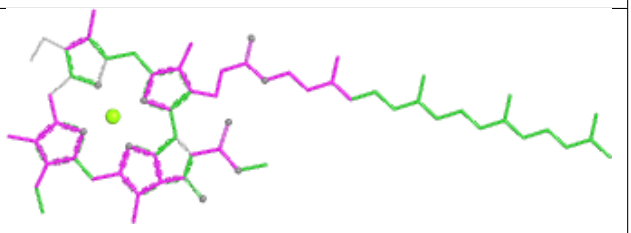


Rings

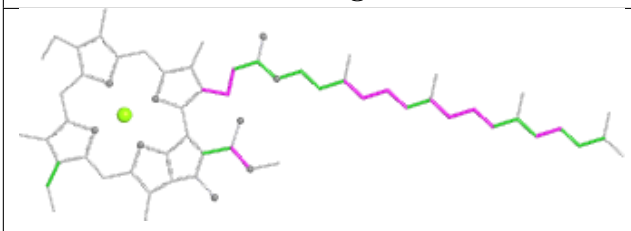
Ligand CLA A 810



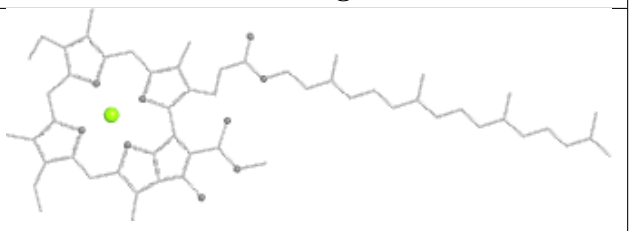
Bond lengths



Bond angles

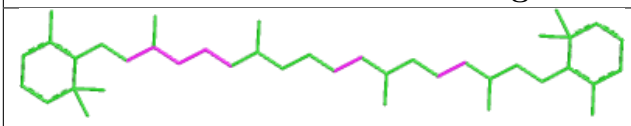


Torsions

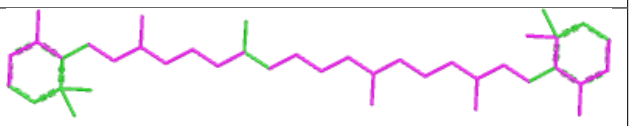


Rings

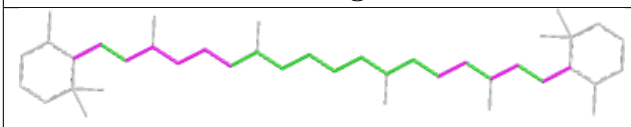
Ligand BCR m 1602



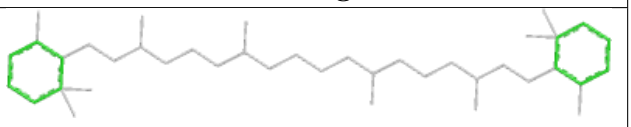
Bond lengths



Bond angles

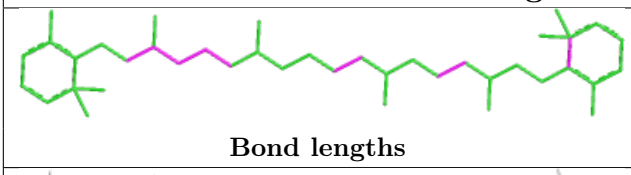


Torsions

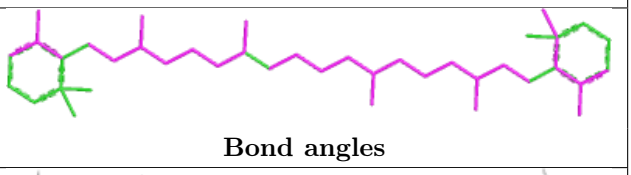


Rings

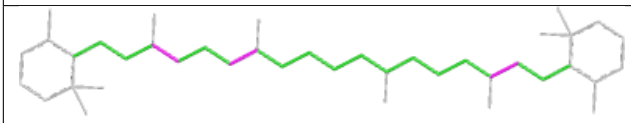
Ligand BCR b 843



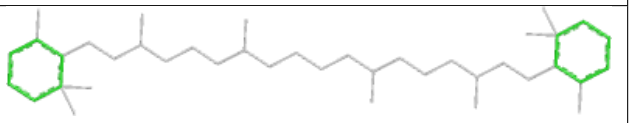
Bond lengths



Bond angles

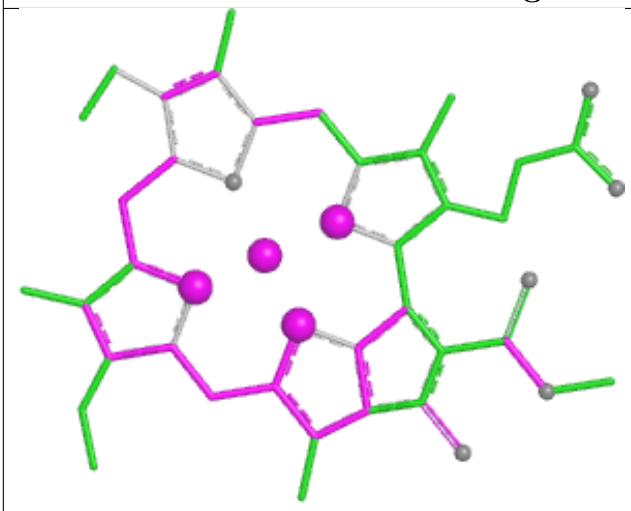


Torsions



Rings

Ligand CLA A 808



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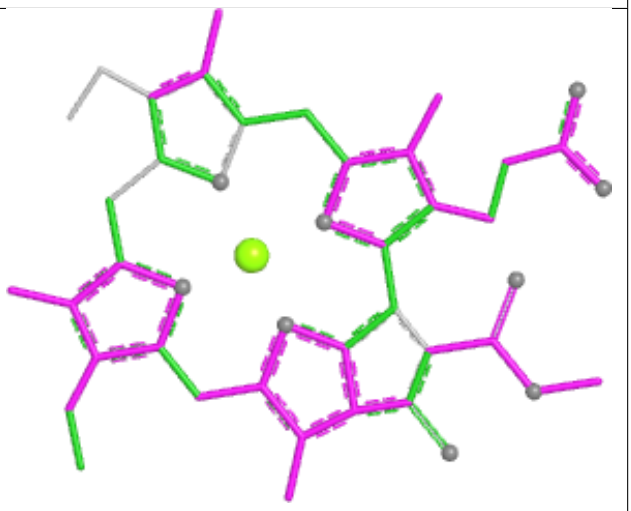
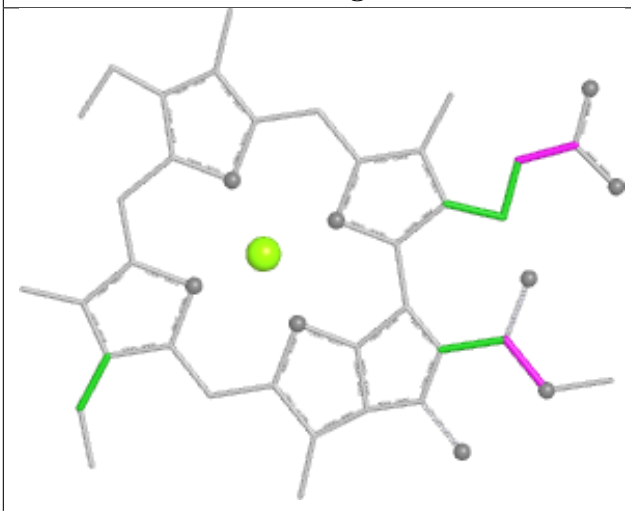
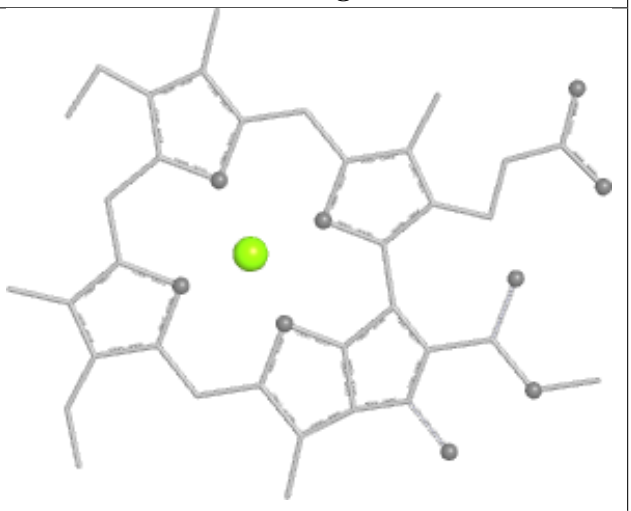


Bond angles

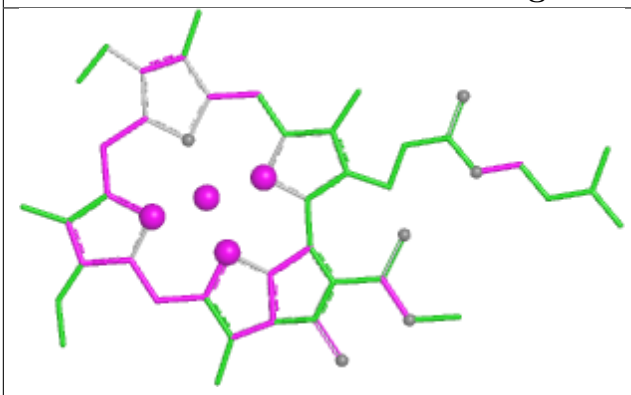


Torsions

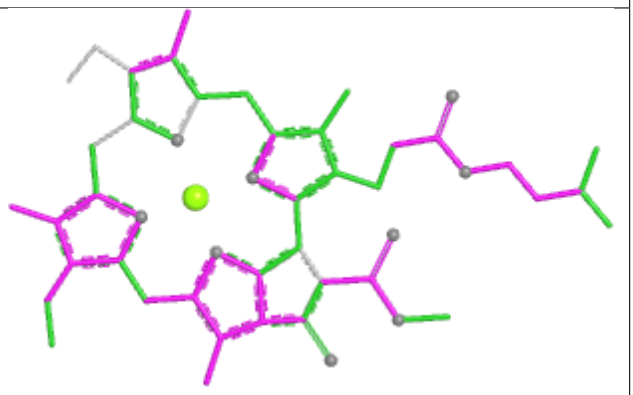


Rings

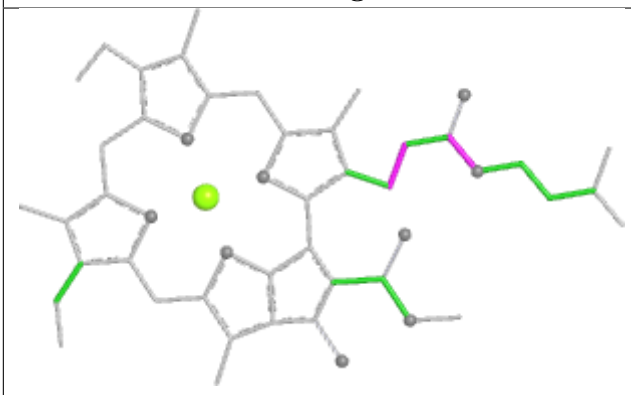
Ligand CLA a 831



Bond lengths



Bond angles



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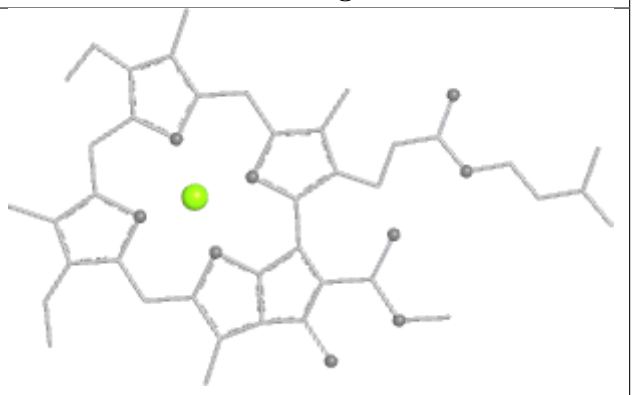
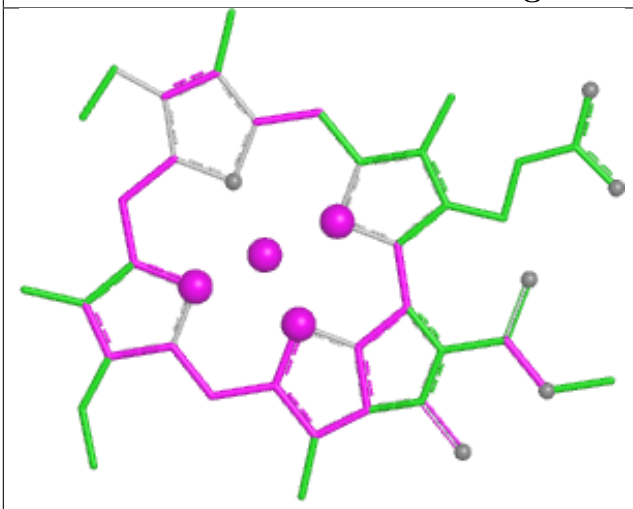


Rings

Ligand CLA A 816



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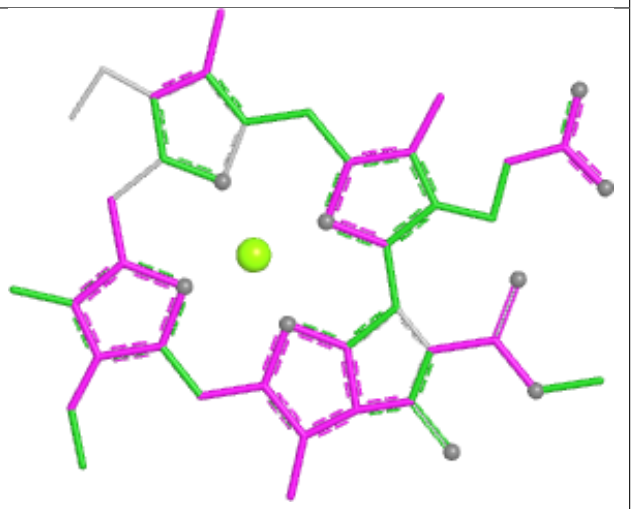
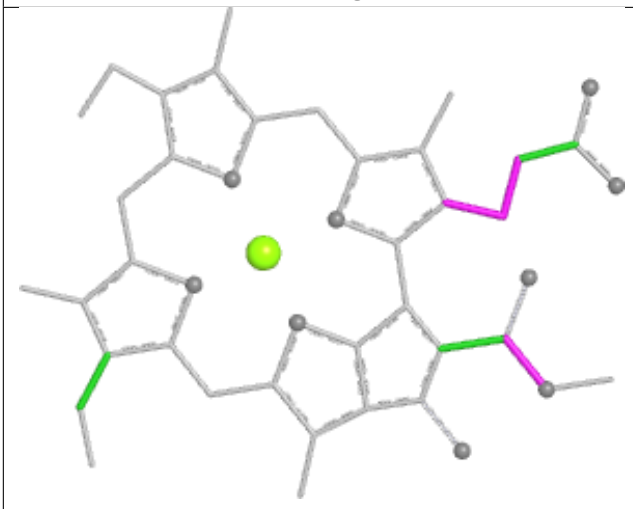


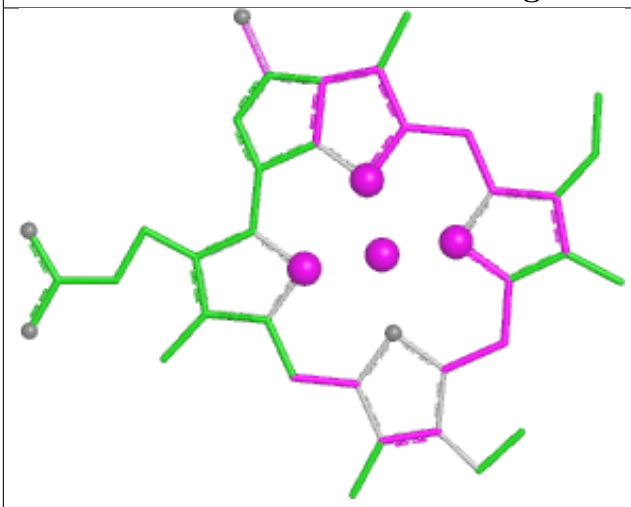
Bond angles



Torsions

Rings

Ligand CLA G 844



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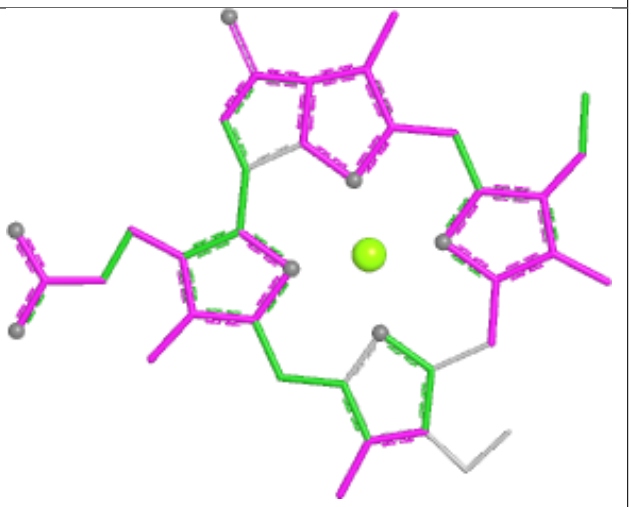
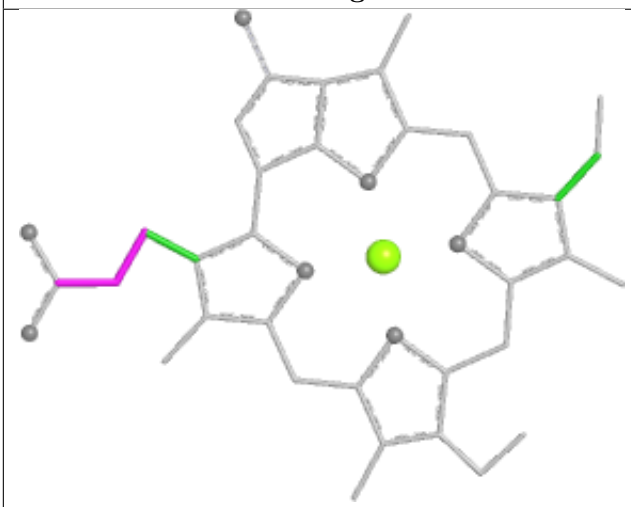
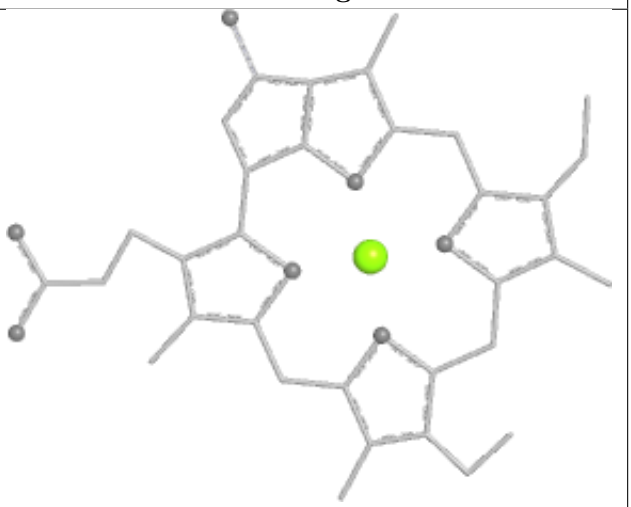


Bond angles

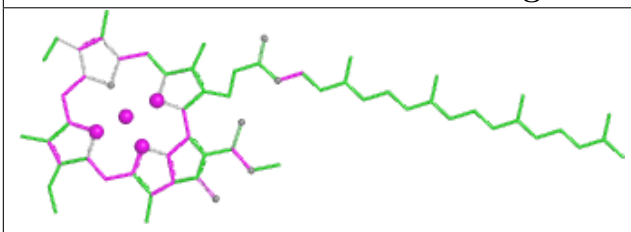


Torsions

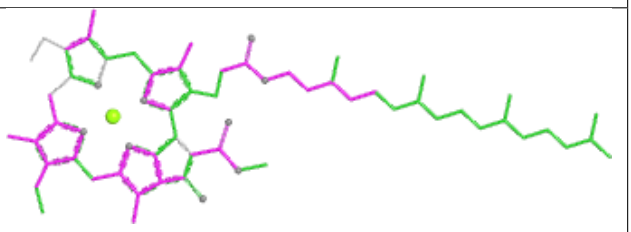


Rings

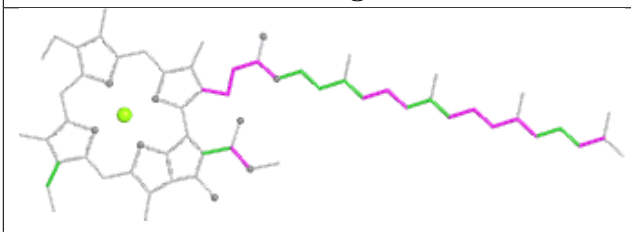
Ligand CLA G 830



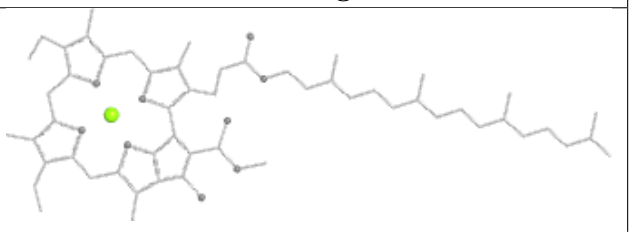
Bond lengths



Bond angles

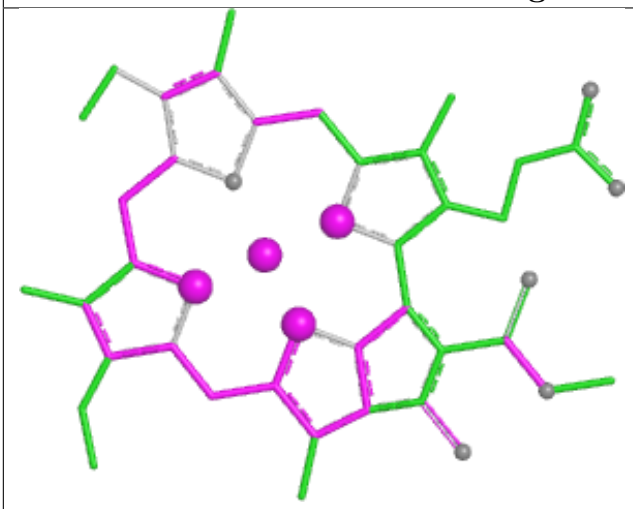


Torsions

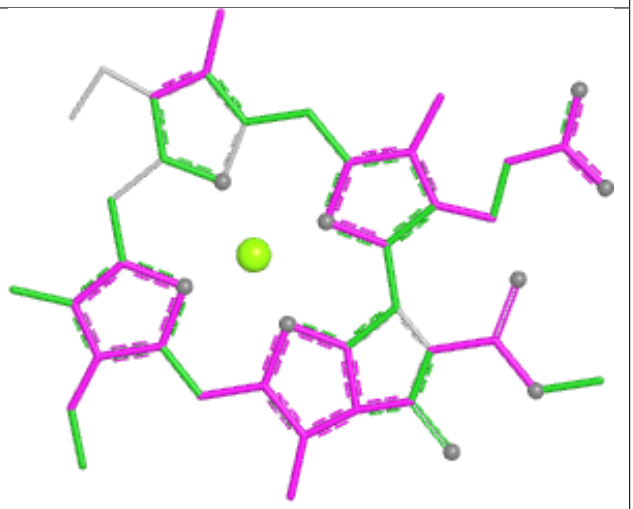


Rings

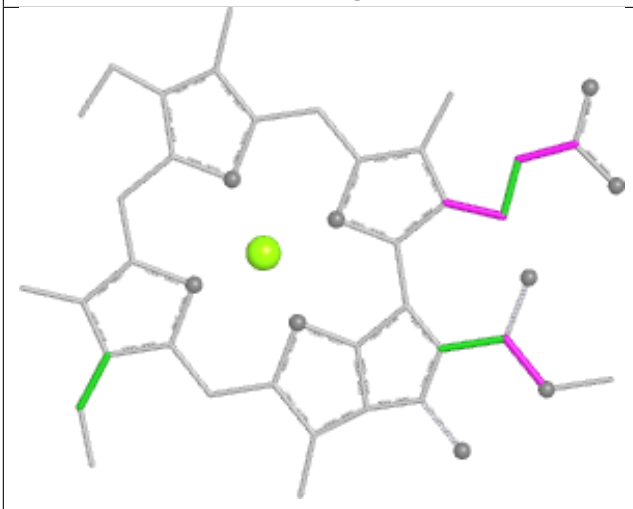
Ligand CLA a 807



Bond lengths



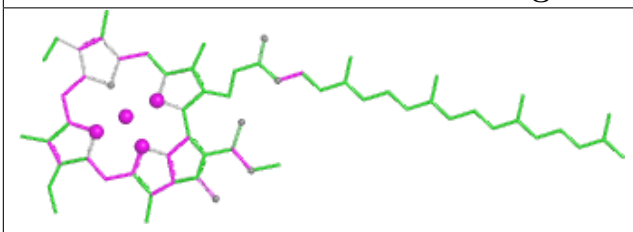
Bond angles



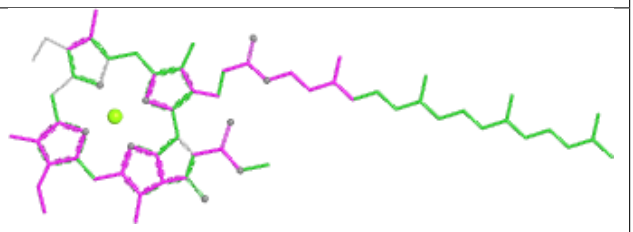
Torsions

Rings

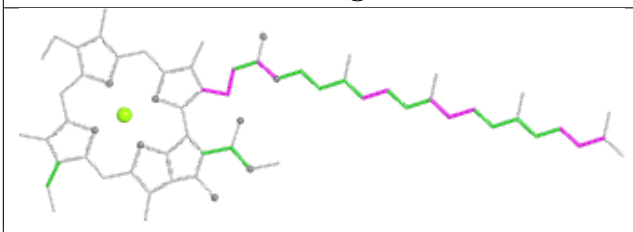
Ligand CLA l 206



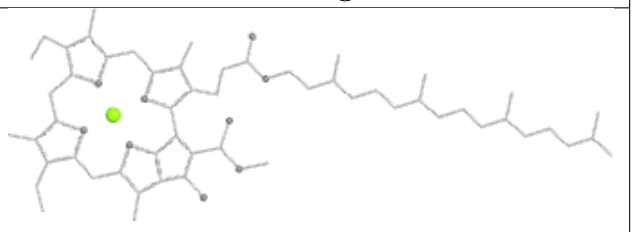
Bond lengths



Bond angles

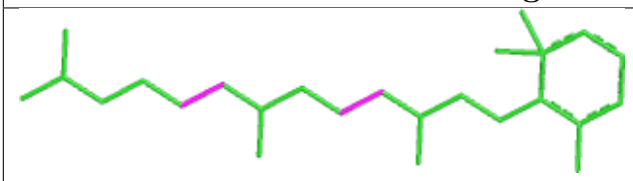


Torsions

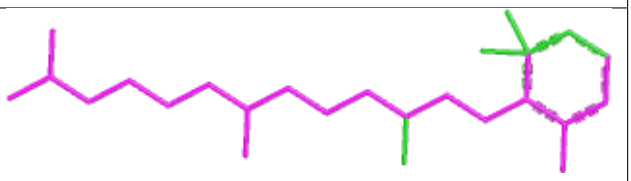


Rings

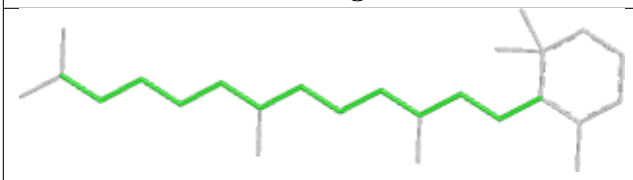
Ligand BCR B 845



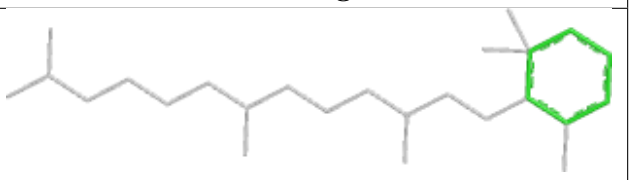
Bond lengths



Bond angles

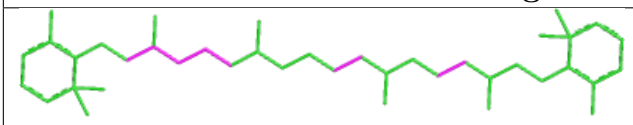


Torsions

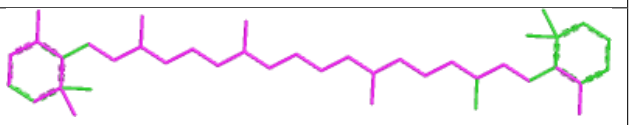


Rings

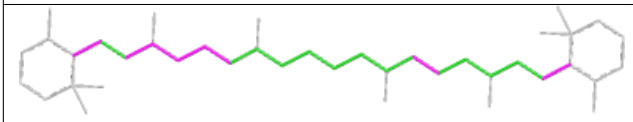
Ligand BCR B 848



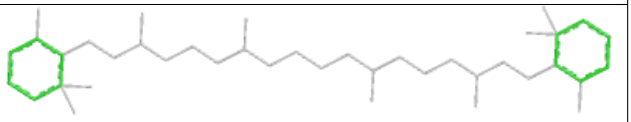
Bond lengths



Bond angles

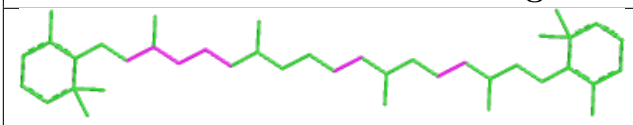


Torsions

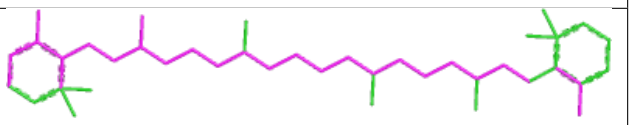


Rings

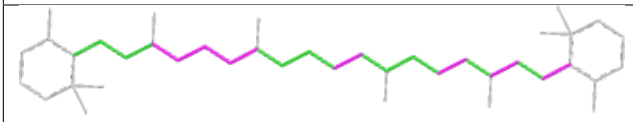
Ligand BCR J 103



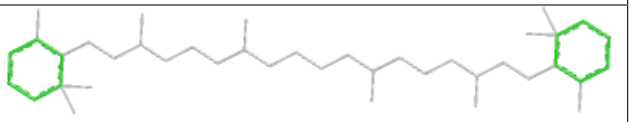
Bond lengths



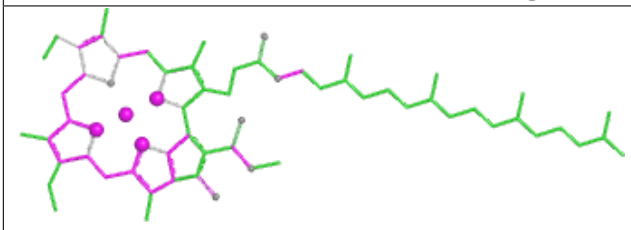
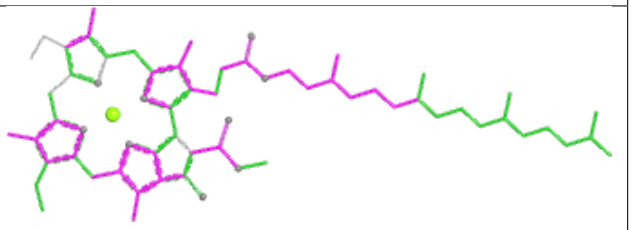
Bond angles



Torsions



Rings

Ligand CLA H 831	
	
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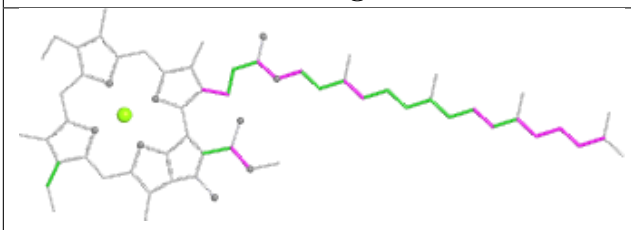
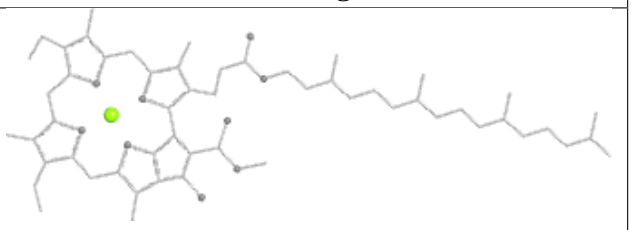
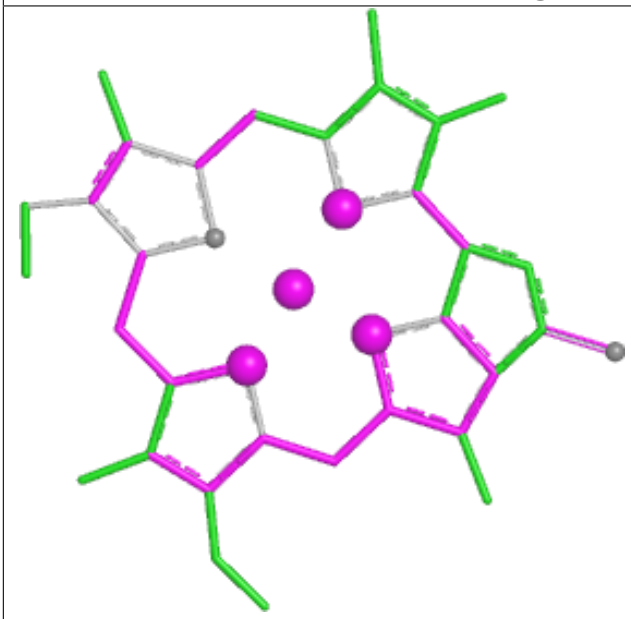
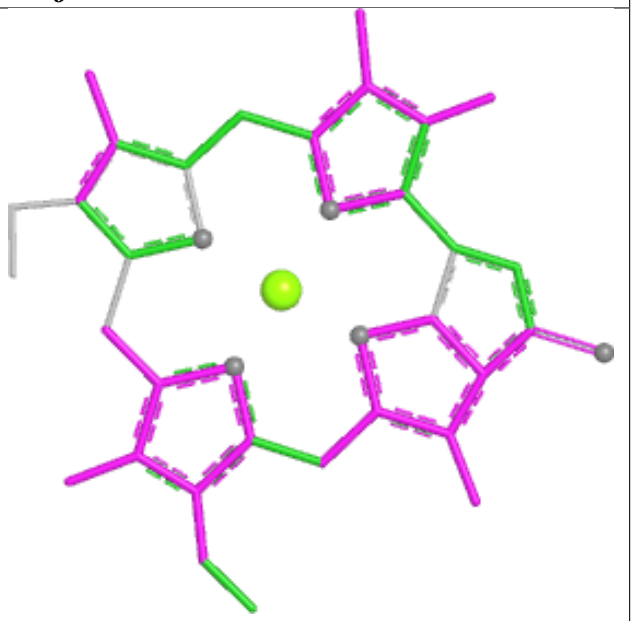
	
Torsions	**Rings**

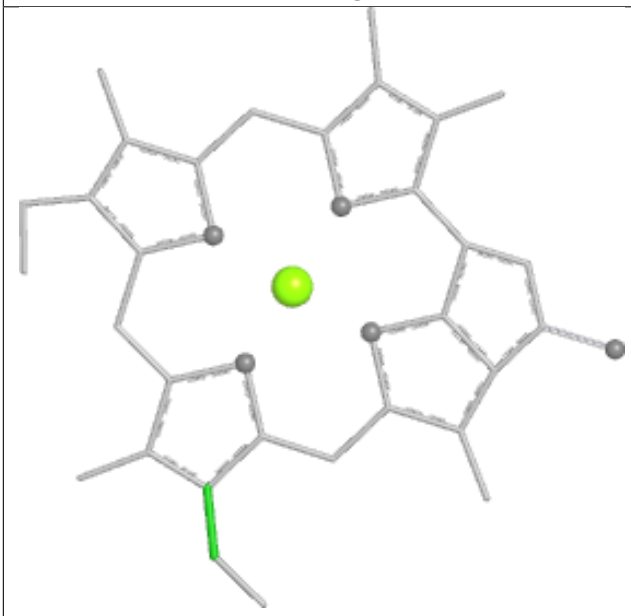
Ligand CLA j 102



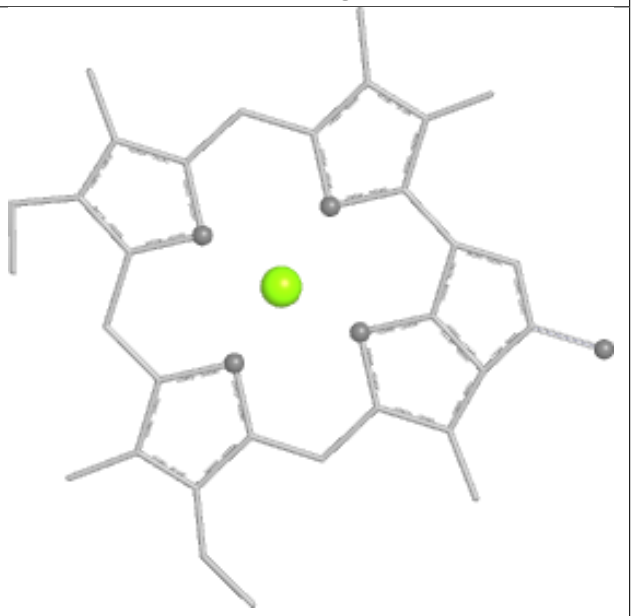
Bond lengths



Bond angles

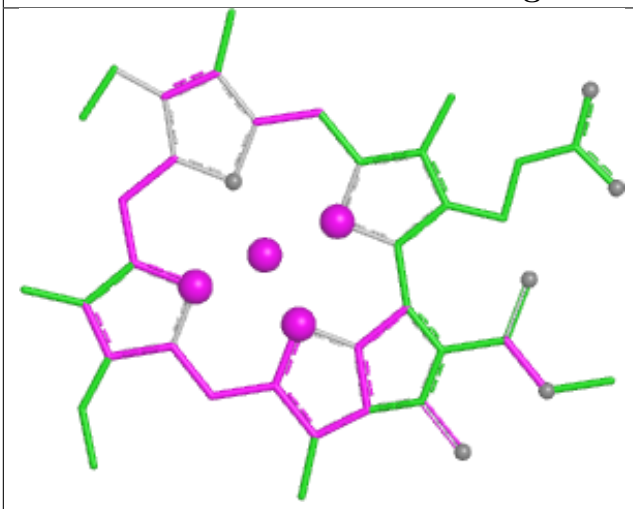


Torsions



Rings

Ligand CLA H 824



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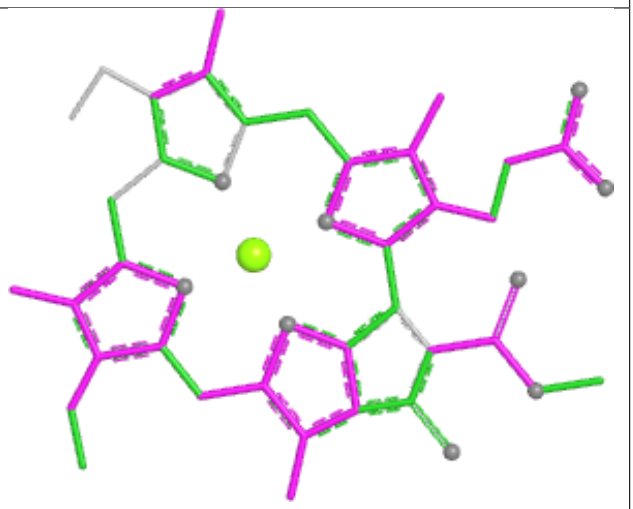
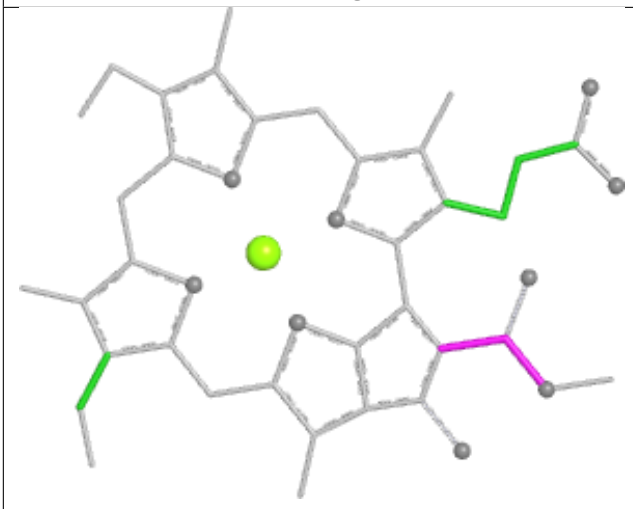


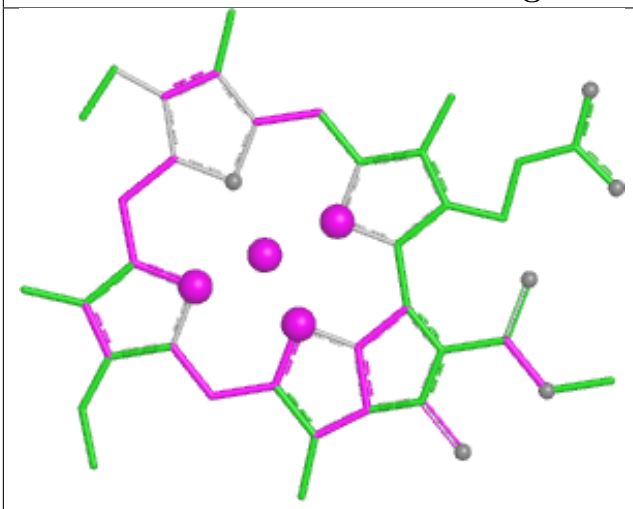
Bond angles



Torsions

Rings

Ligand CLA H 822



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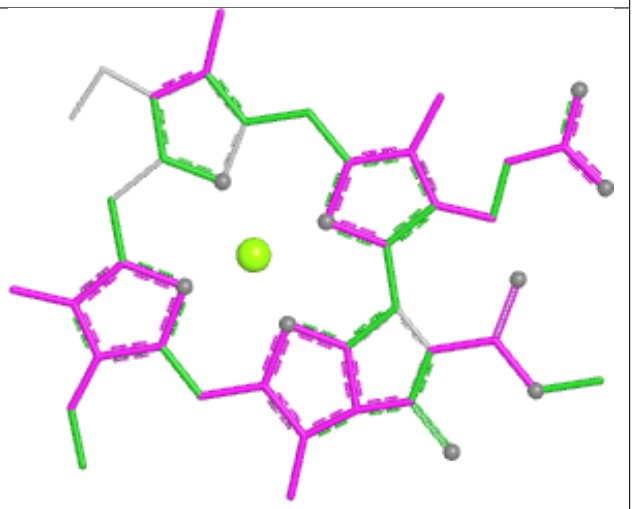
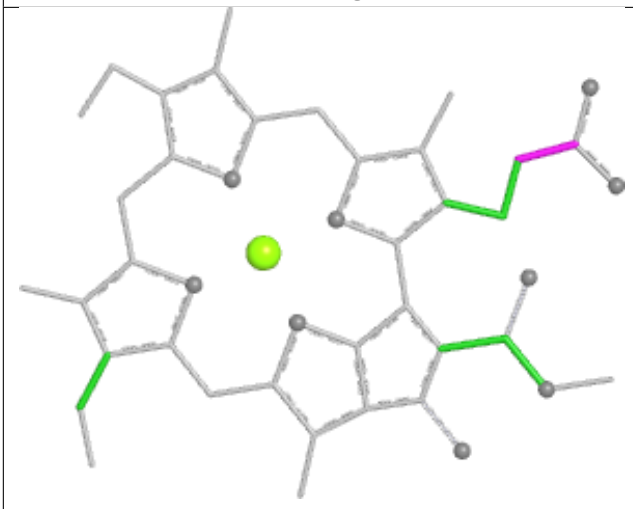


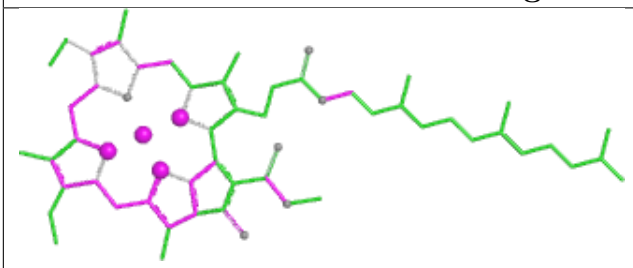
Bond angles



Torsions

Rings

Ligand CLA A 814



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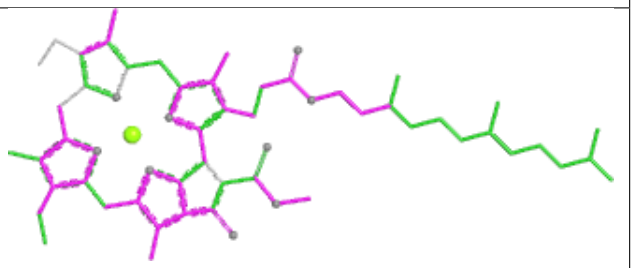

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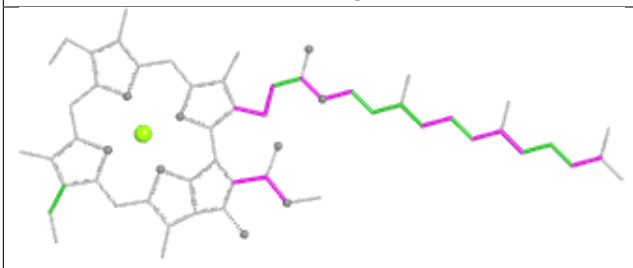

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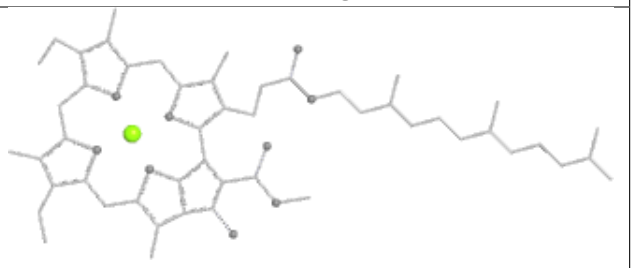
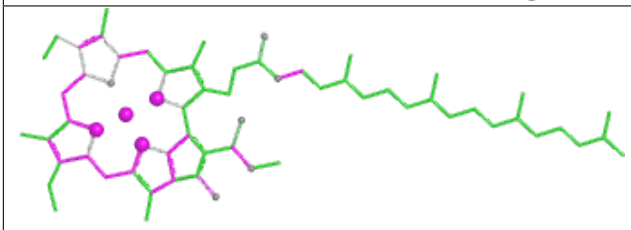


Rings

Ligand CLA G 831



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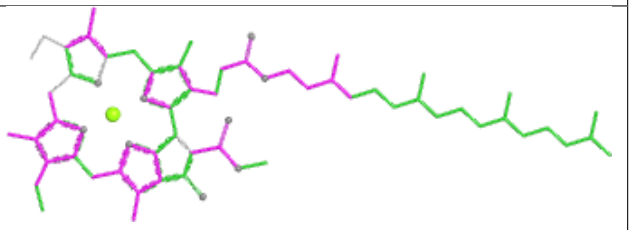

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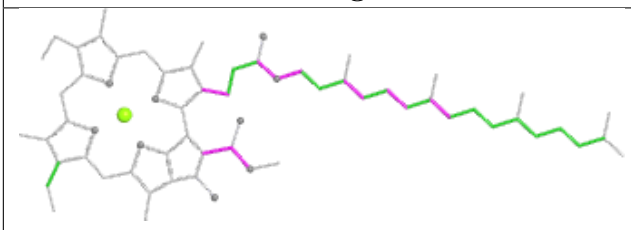

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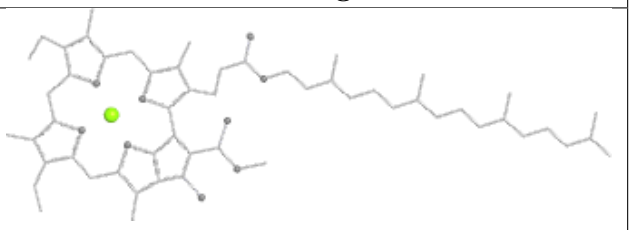
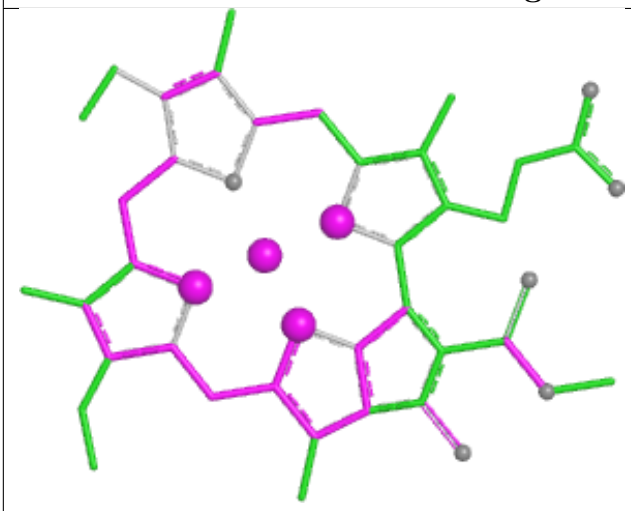
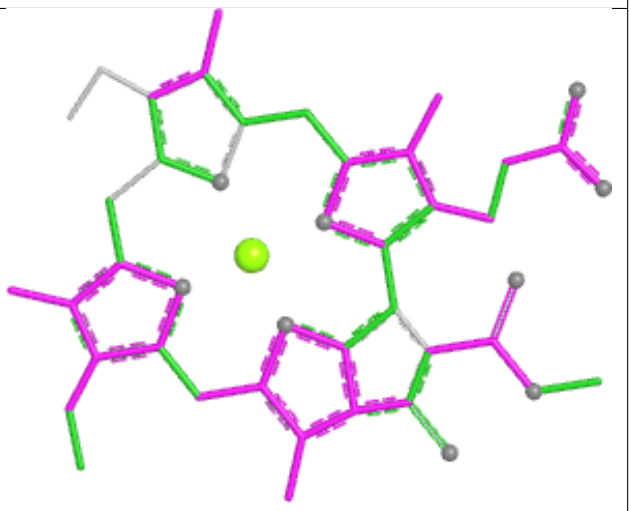


Rings

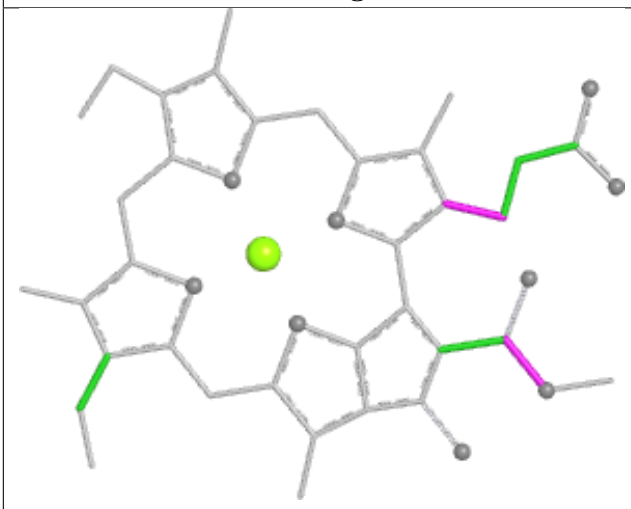
Ligand CLA B 810



Bond lengths



Bond angles



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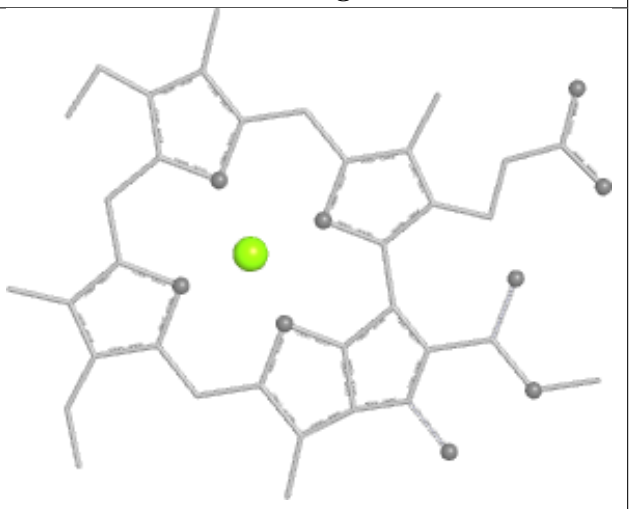
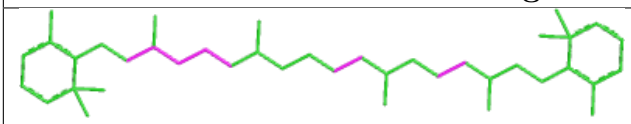
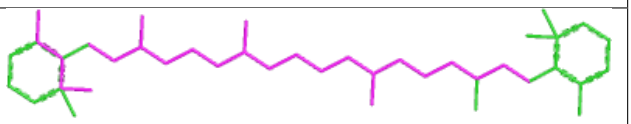
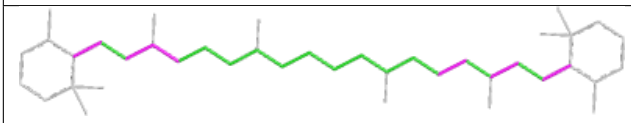
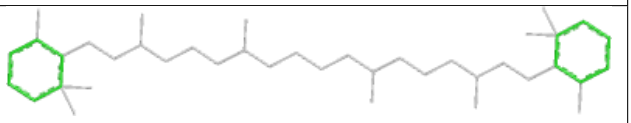
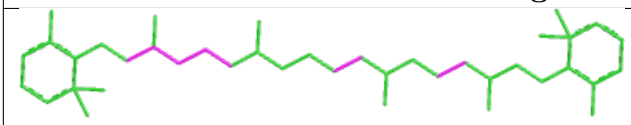
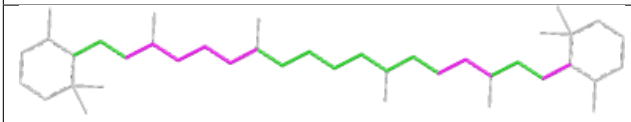
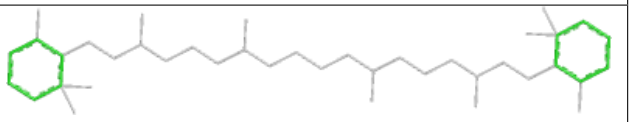
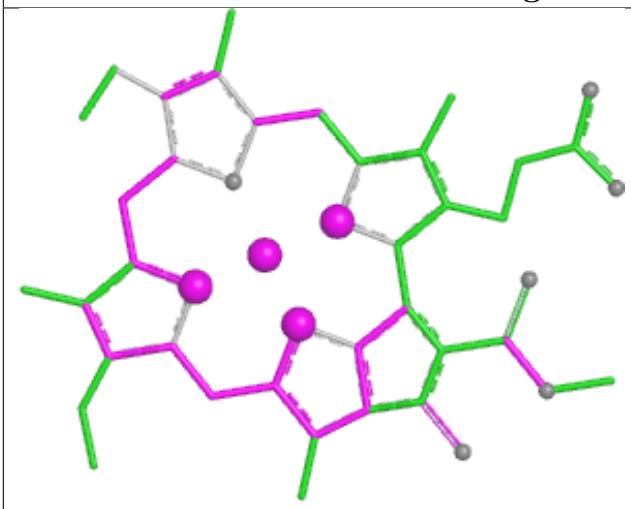


Rings

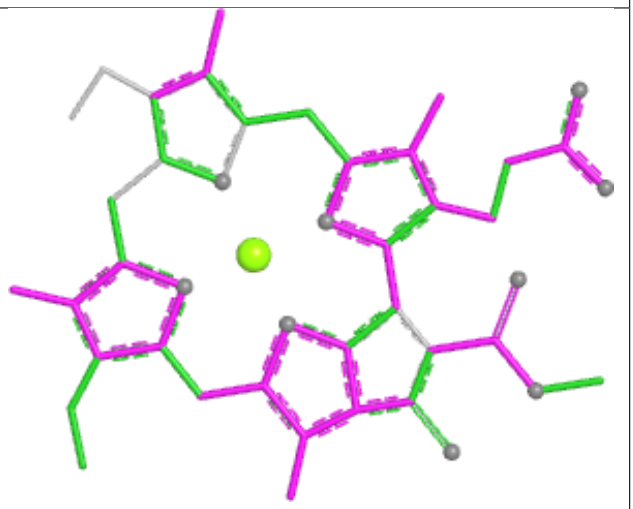
Ligand BCR B 842	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand BCR l 203	
 Bond lengths	 Bond angles
 Torsions	 Rings

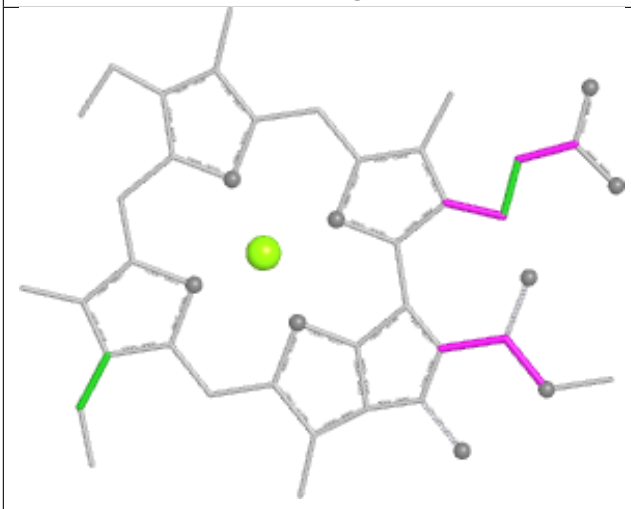
Ligand CLA K 102



Bond lengths



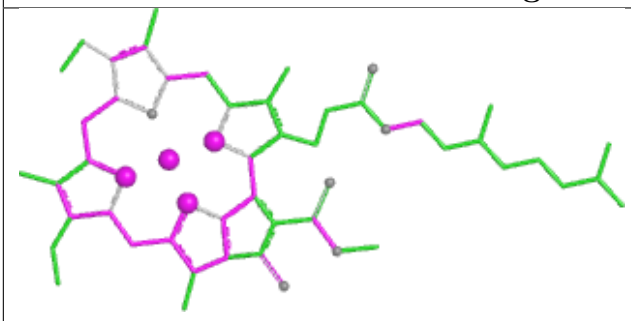
Bond angles



Torsions

Rings

Ligand CLA G 825



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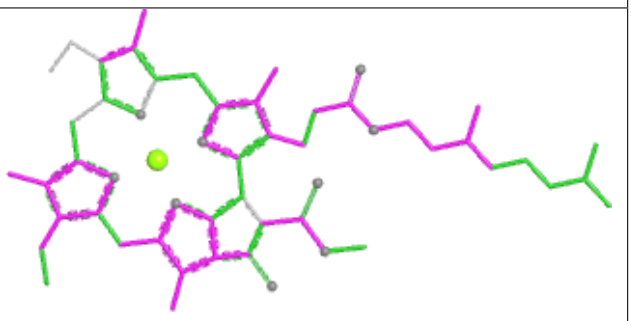

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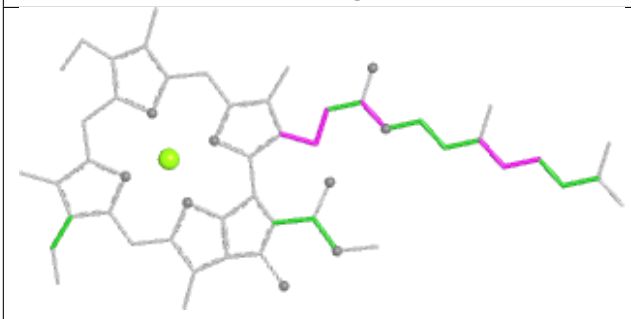

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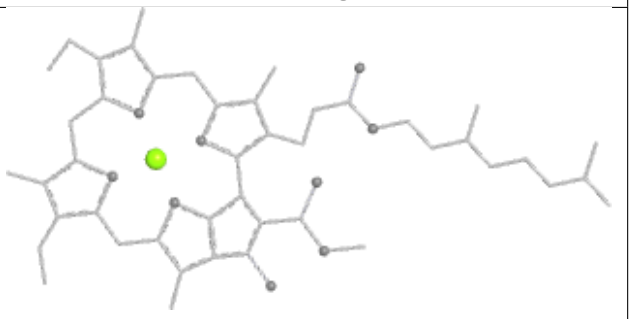
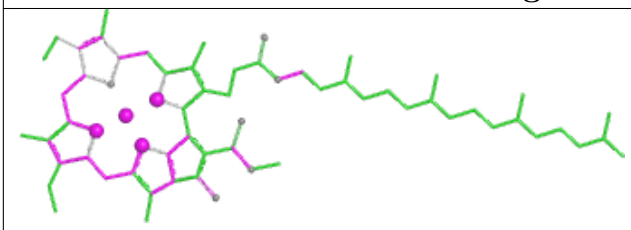


Rings

Ligand CLA G 843



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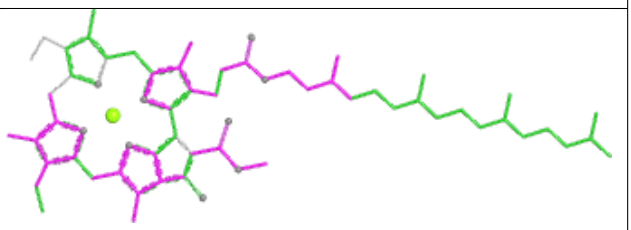
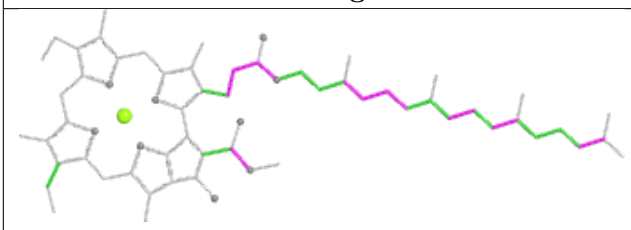


Bond angles



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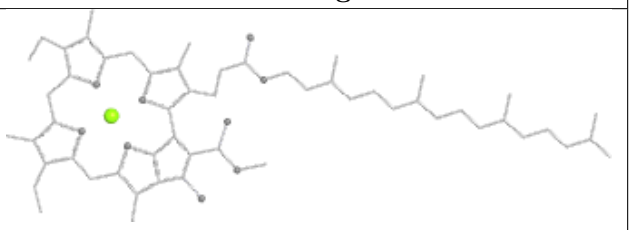
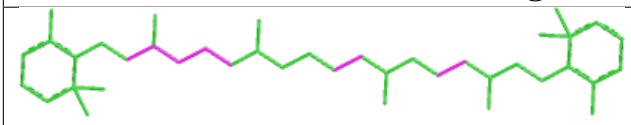


Rings

Ligand BCR a 848



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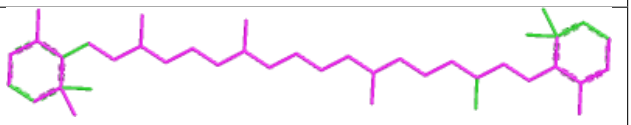
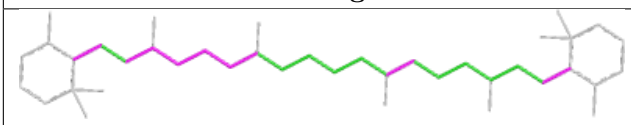


Bond angles



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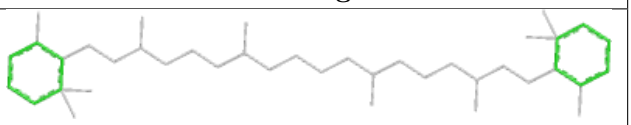
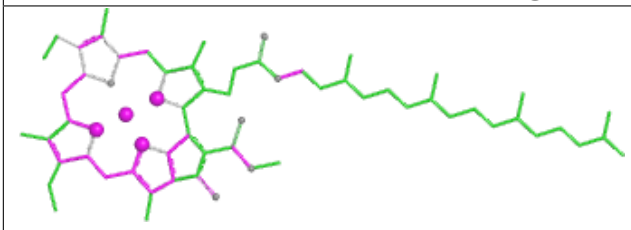
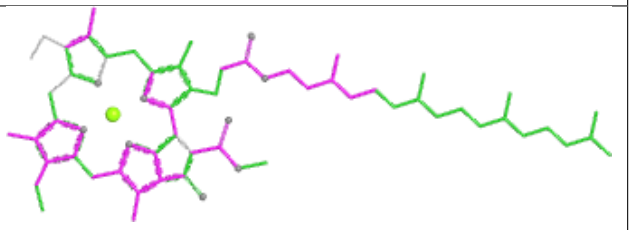


Rings

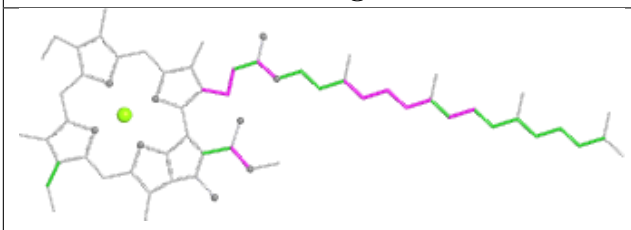
Ligand CLA L 206



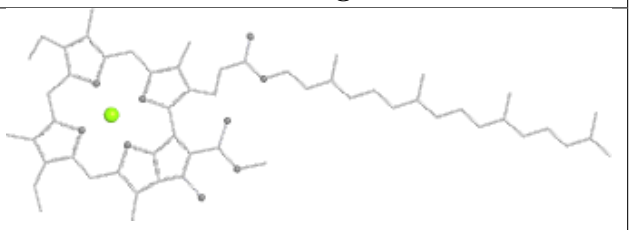
Bond lengths



Bond angles

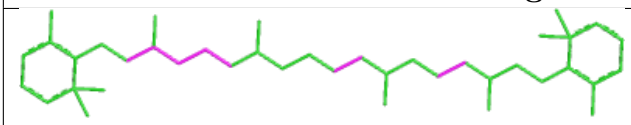


Torsions



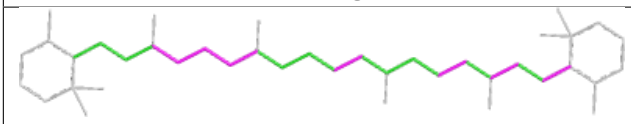
Rings

Ligand BCR S 104

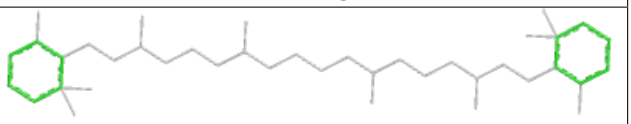


Bond lengths

Bond angles

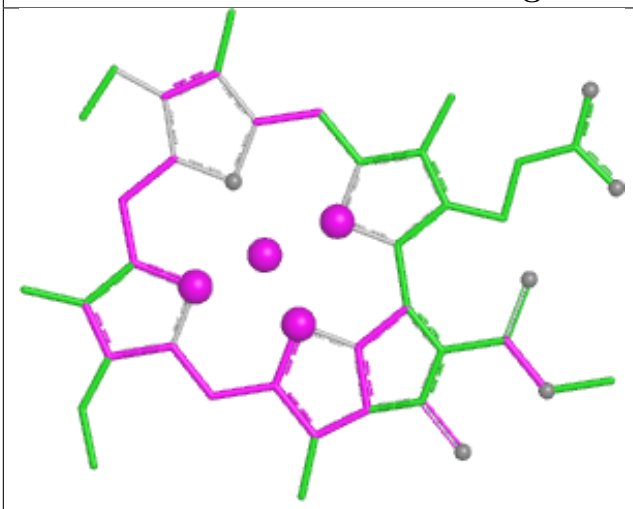


Torsions



Rings

Ligand CLA H 833



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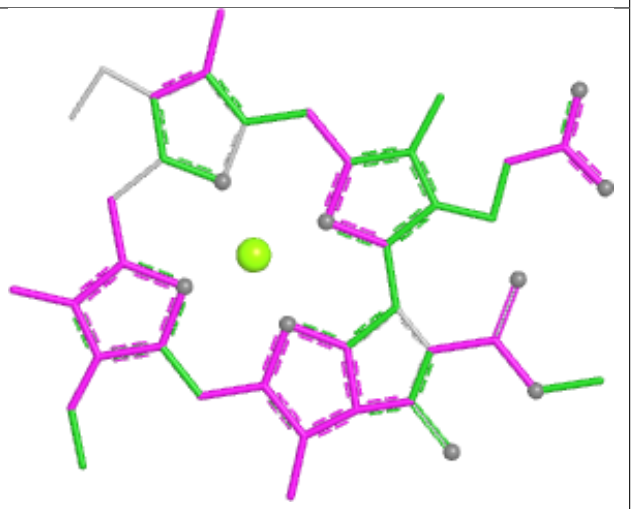
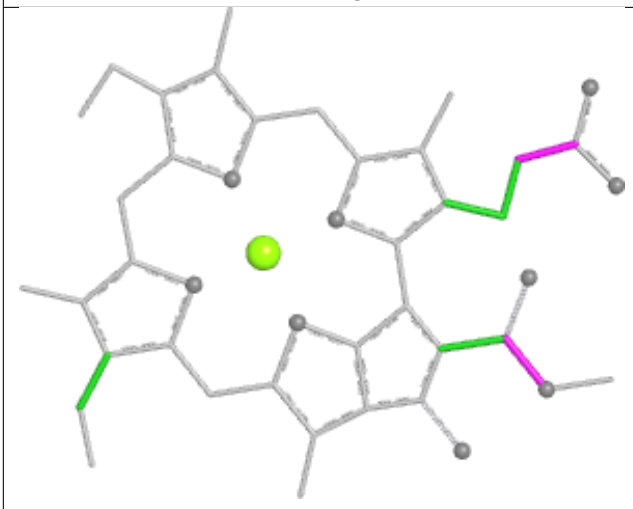


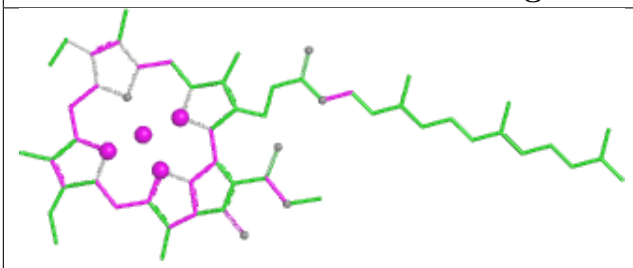
Bond angles



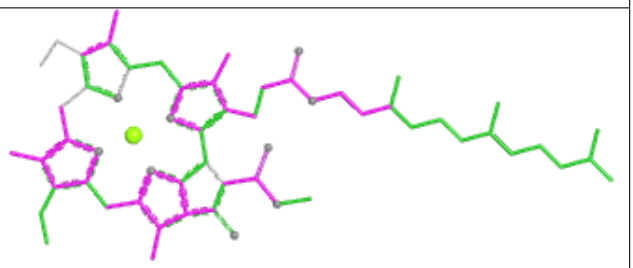
Torsions

Rings

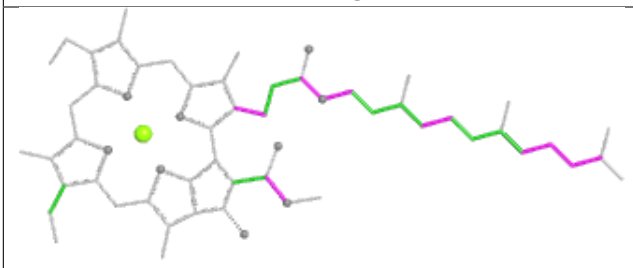
Ligand CLA B 836



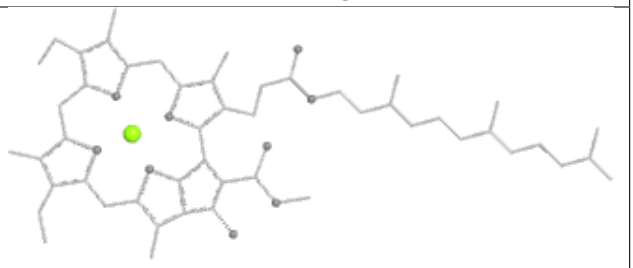
Bond lengths



Bond angles

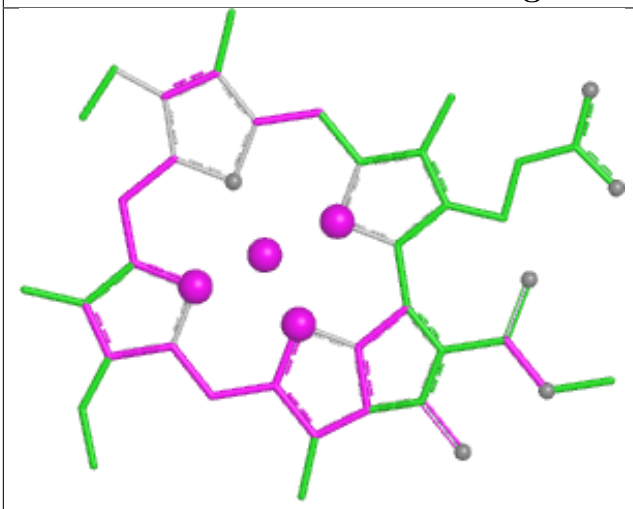


Torsions

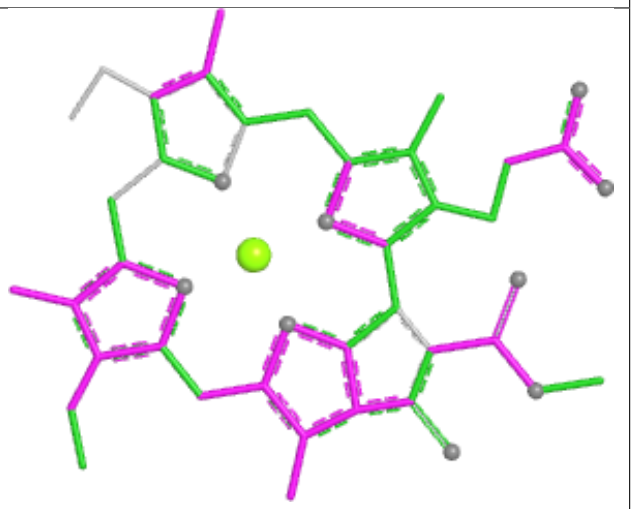


Rings

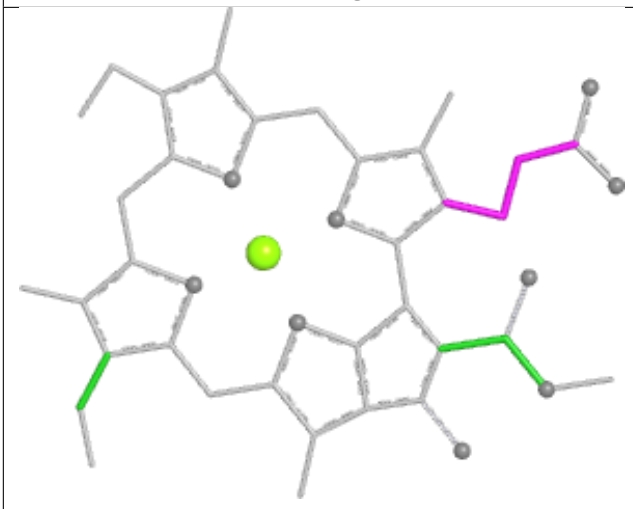
Ligand CLA H 811



Bond lengths



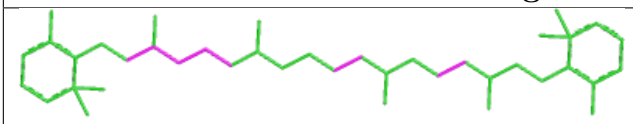
Bond angles



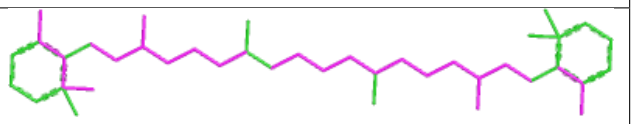
Torsions

Rings

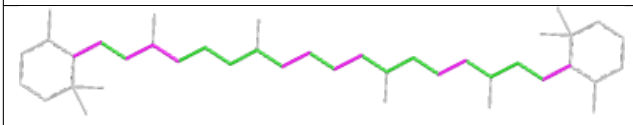
Ligand BCR B 850



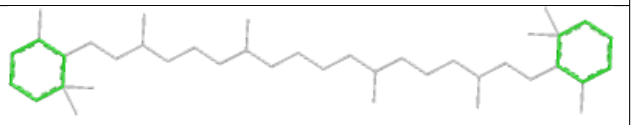
Bond lengths



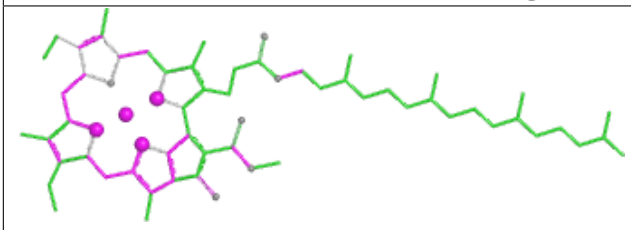
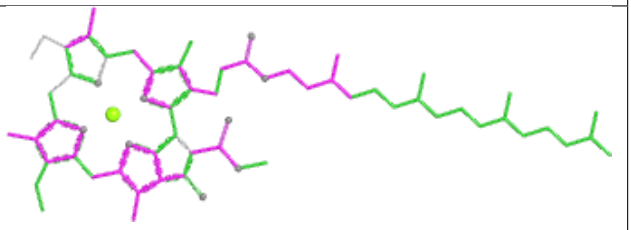
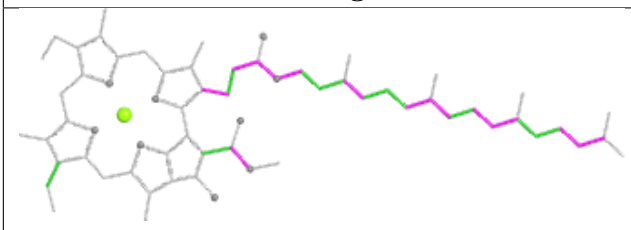
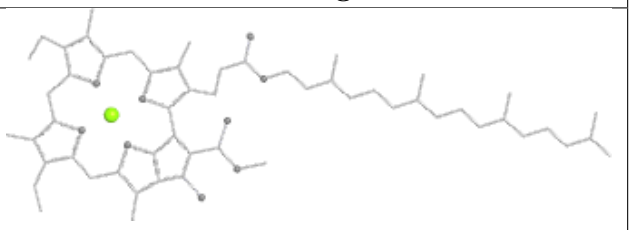
Bond angles

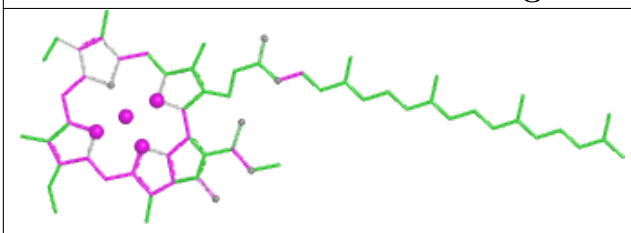
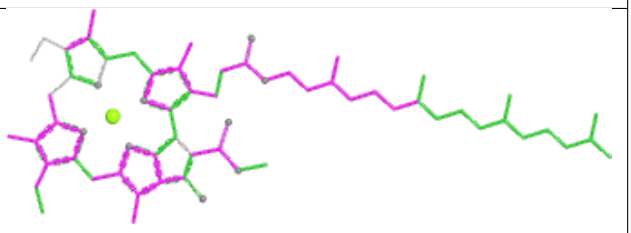
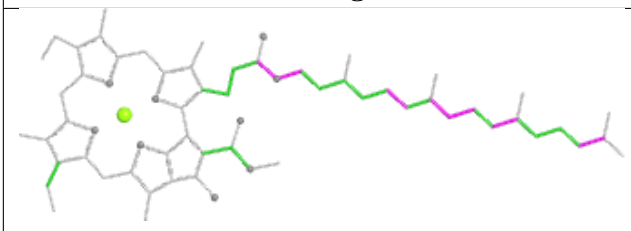
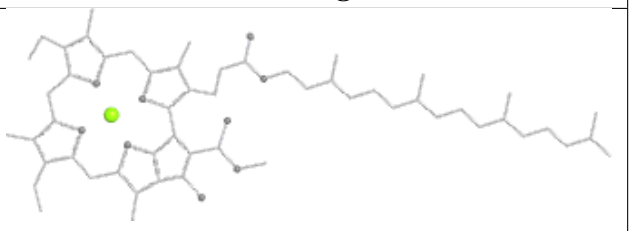


Torsions

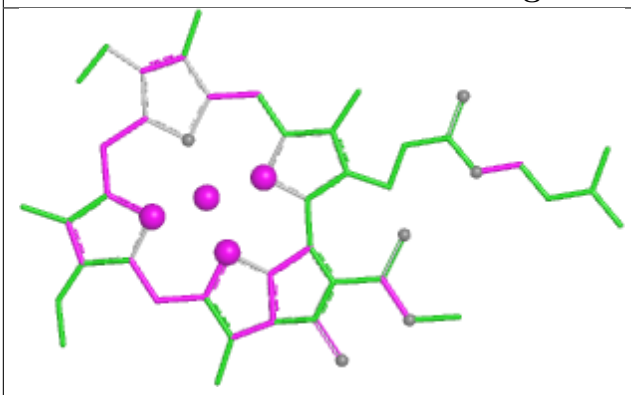


Rings

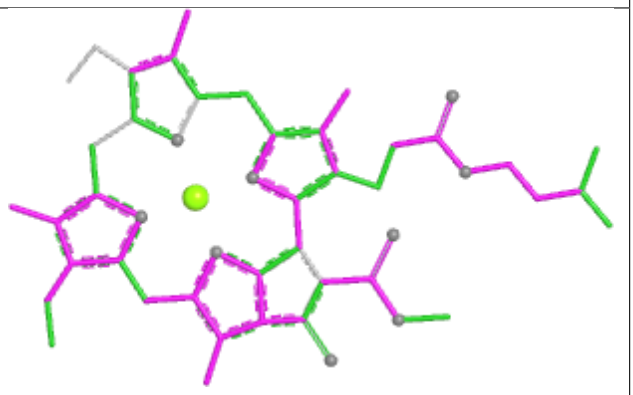
Ligand CLA G 807	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA A 839	
	
Bond lengths	Bond angles
	
Torsions	Rings

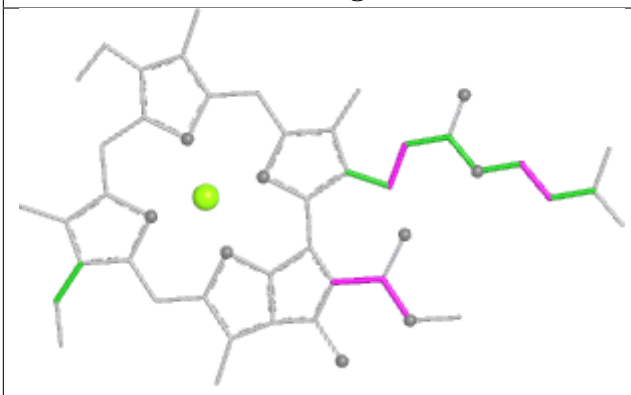
Ligand CLA H 823



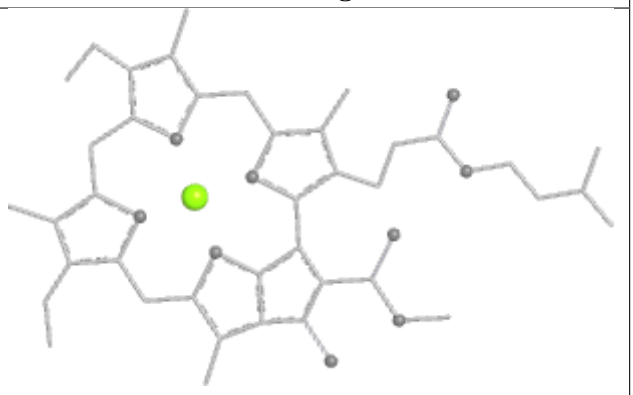
Bond lengths



Bond angles

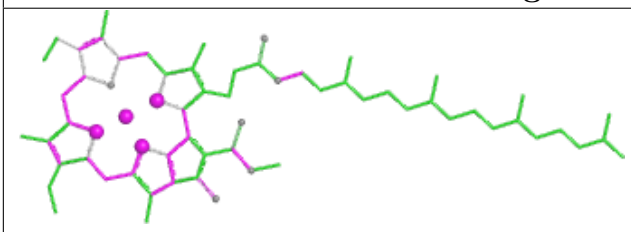


Torsions

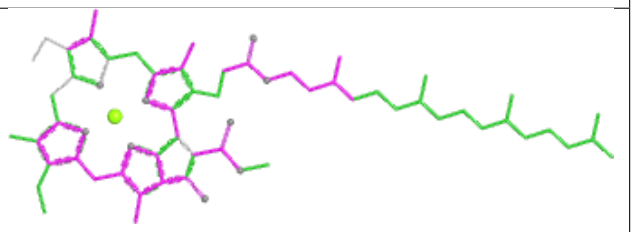


Rings

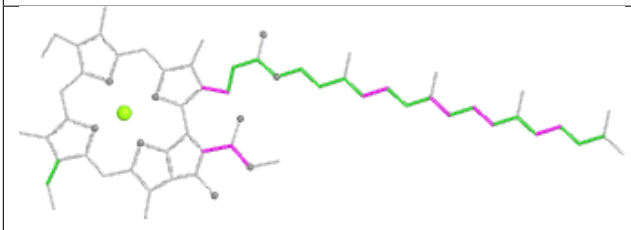
Ligand CLA H 825



Bond lengths



Bond angles



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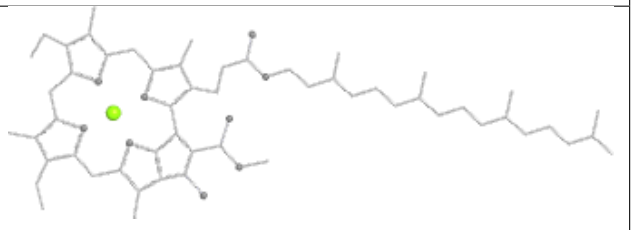
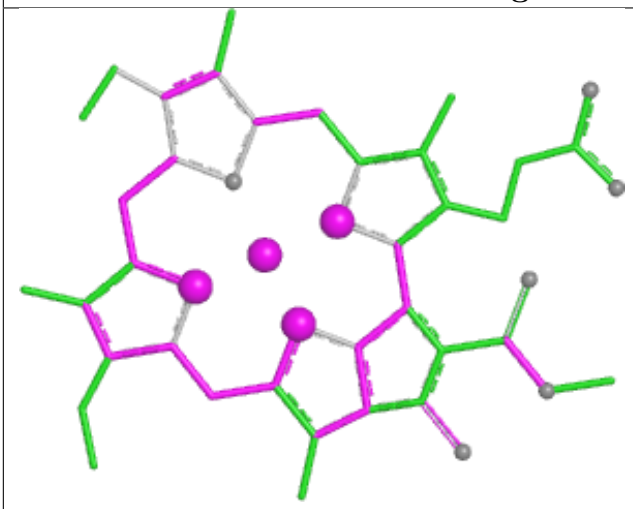
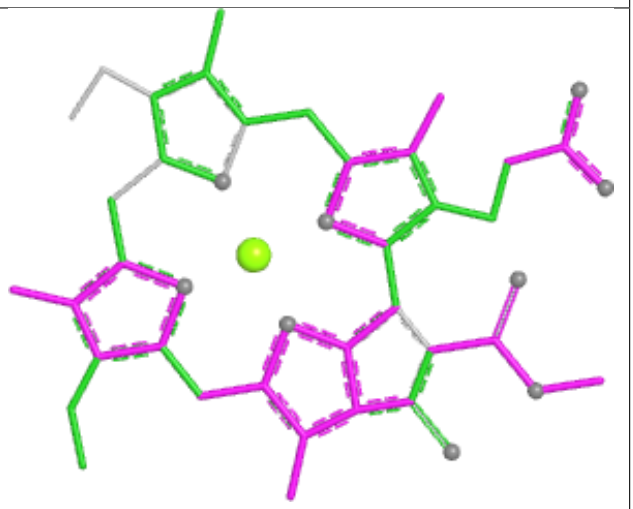


Rings

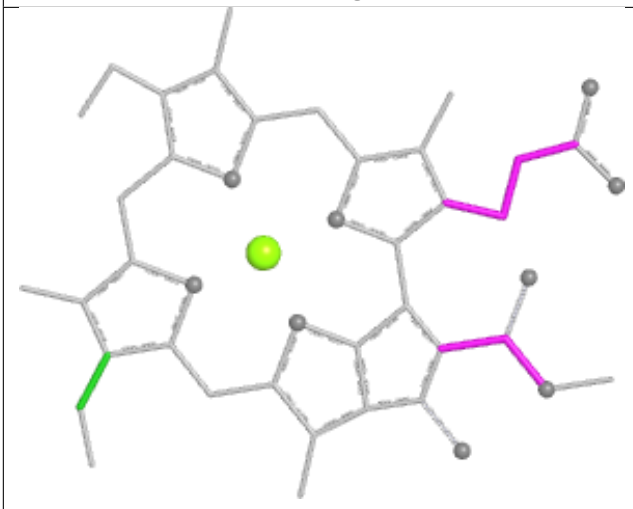
Ligand CLA M 1601



Bond lengths



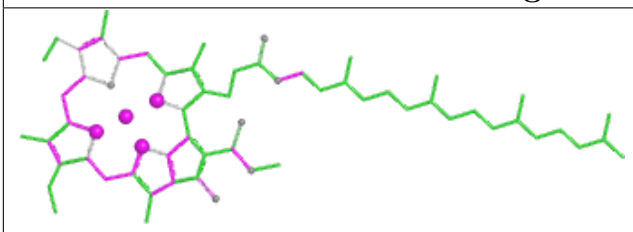
Bond angles



Torsions

Rings

Ligand CLA A 829



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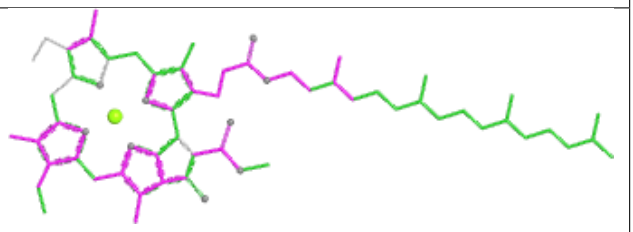
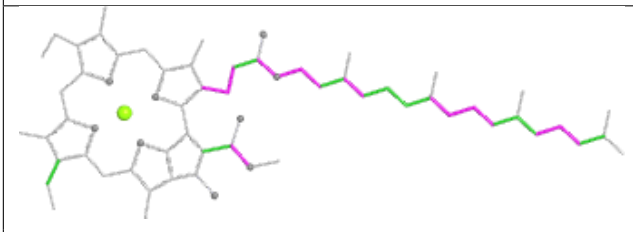
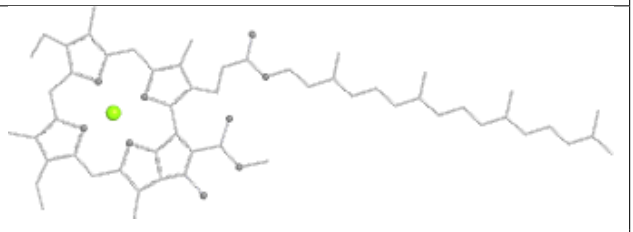


Bond angles

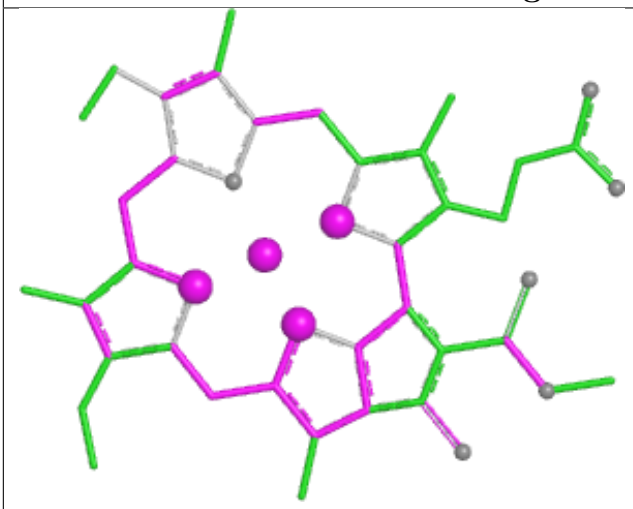


Torsions

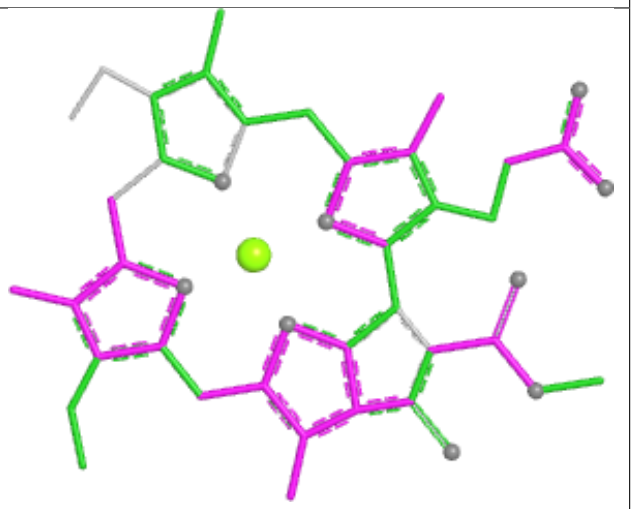


Rings

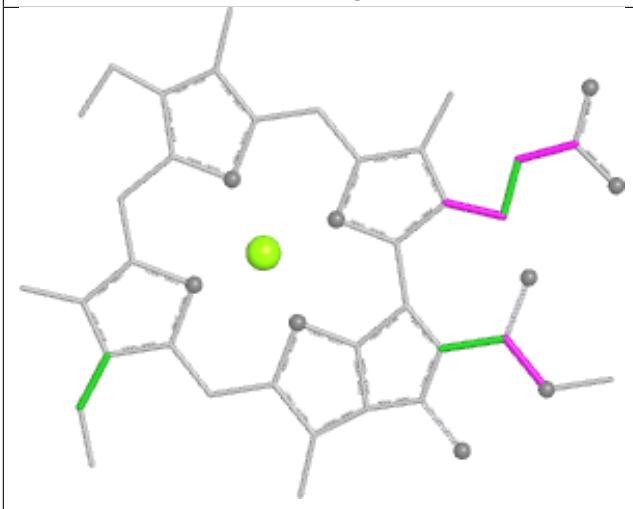
Ligand CLA H 834



Bond lengths



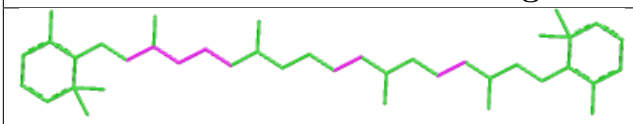
Bond angles



Torsions

Rings

Ligand BCR Q 202



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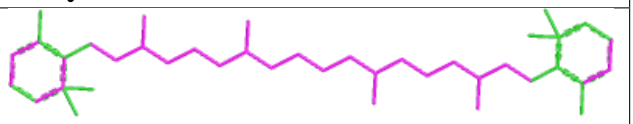
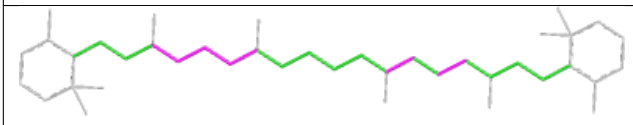


Bond angles



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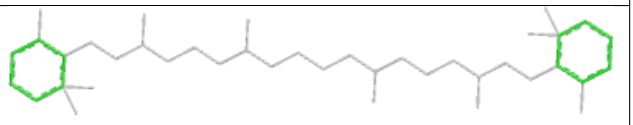
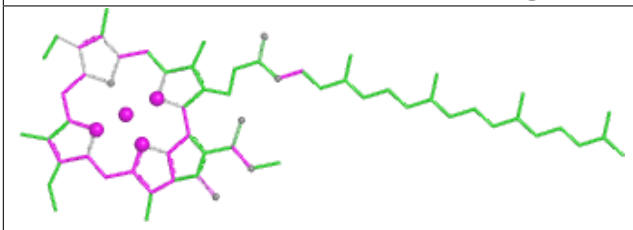


Rings

Ligand CLA H 818



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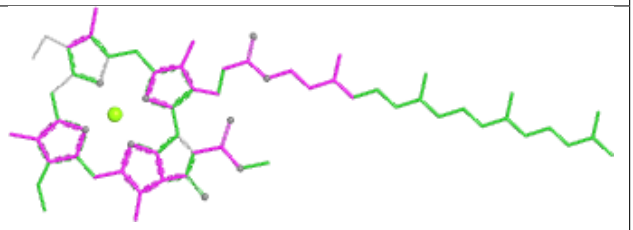
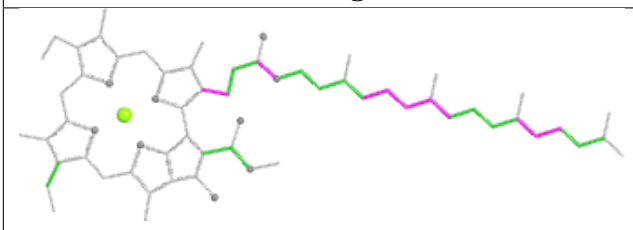


Bond angles



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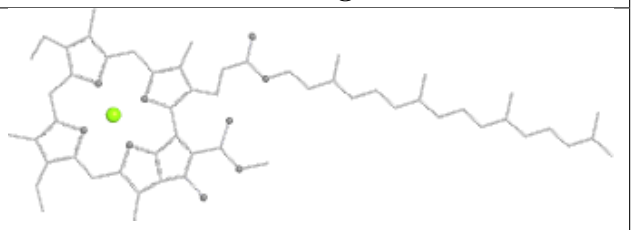
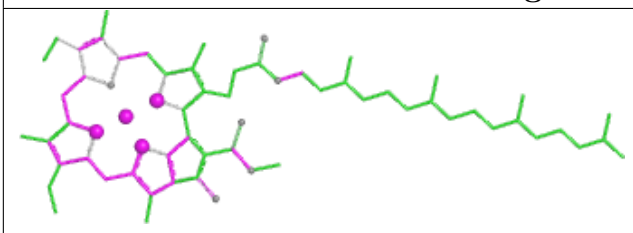


Rings

Ligand CLA B 805



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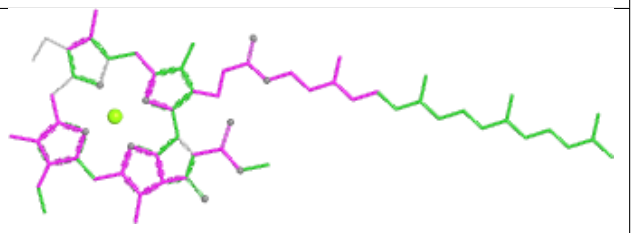
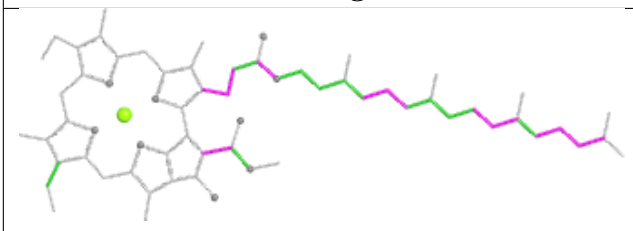
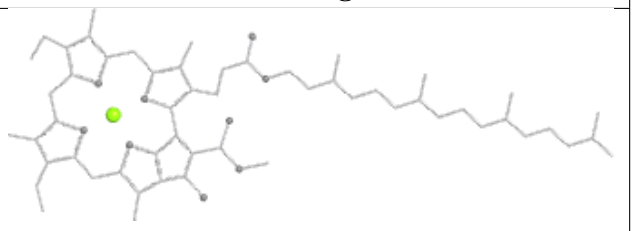


Bond angles

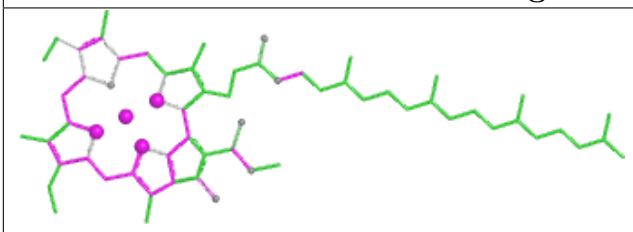


Torsions

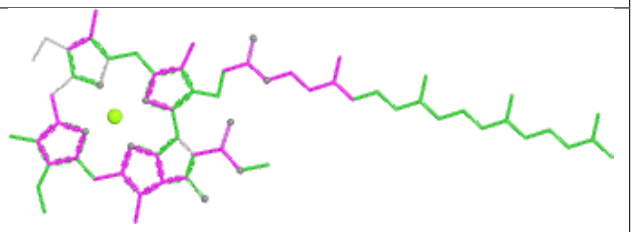


Rings

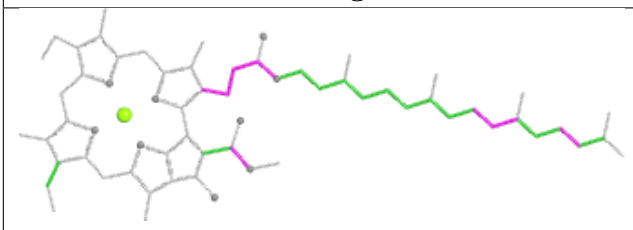
Ligand CLA a 811



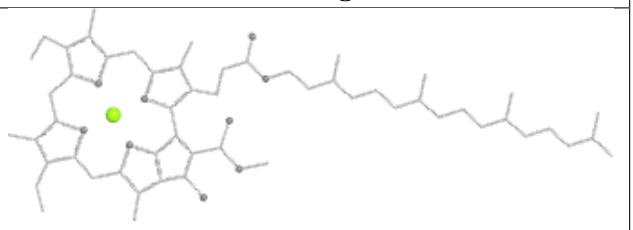
Bond lengths



Bond angles

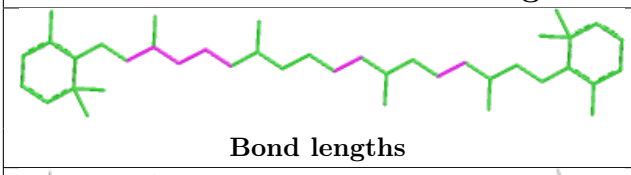


Torsions

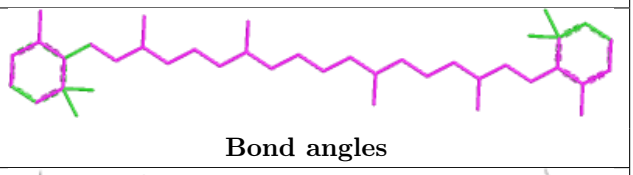


Rings

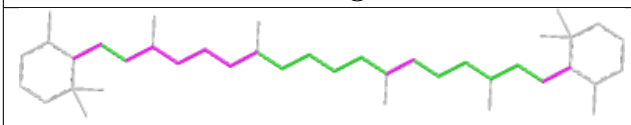
Ligand BCR A 849



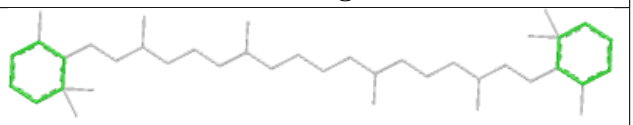
Bond lengths



Bond angles

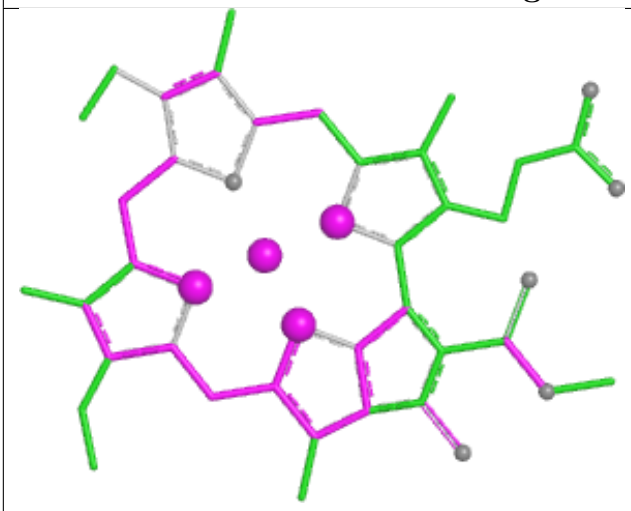


Torsions

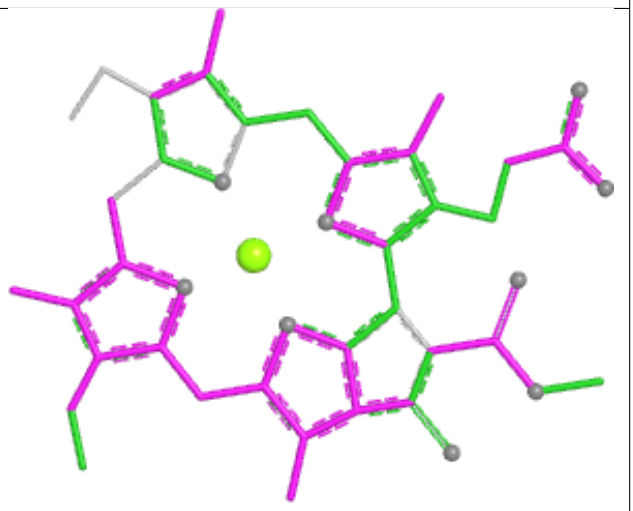


Rings

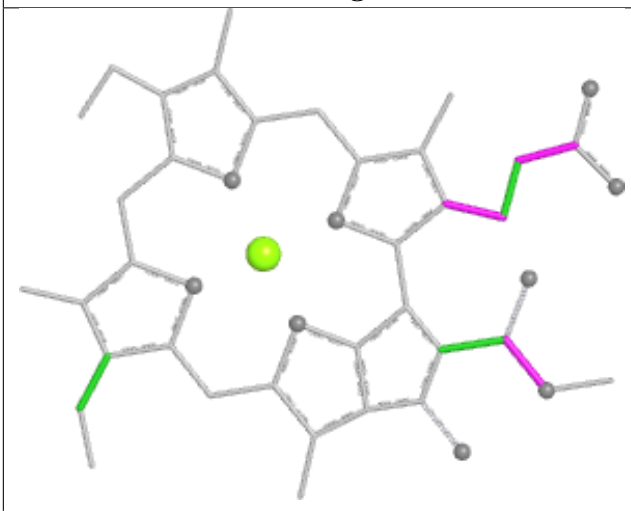
Ligand CLA H 835



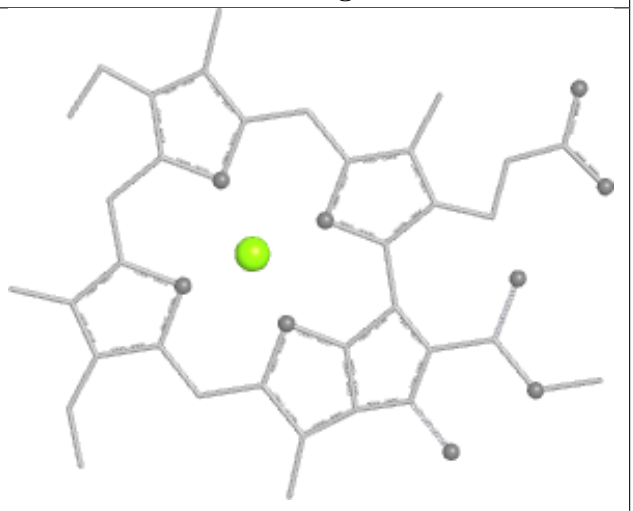
Bond lengths



Bond angles

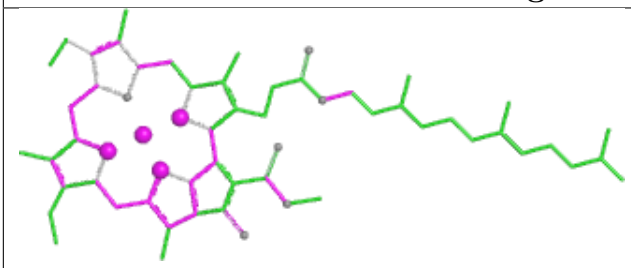


Torsions

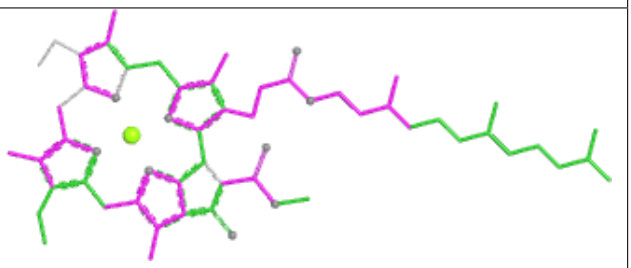


Rings

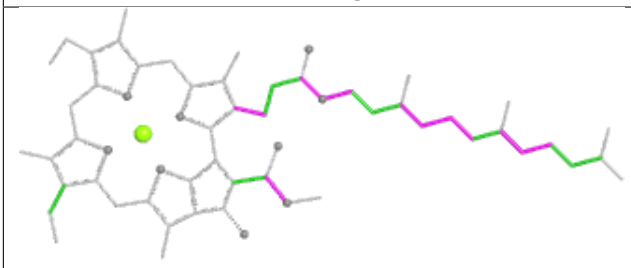
Ligand CLA b 817



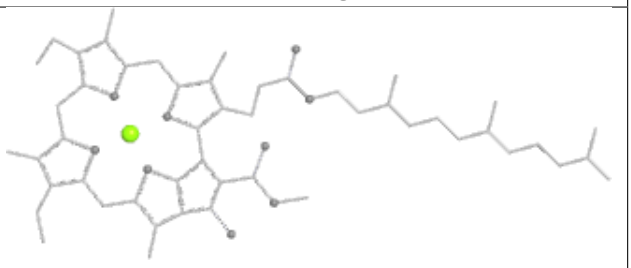
Bond lengths



Bond angles

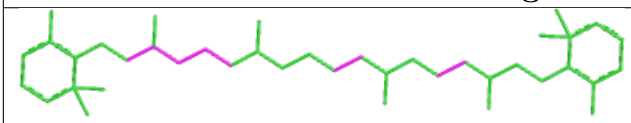


Torsions

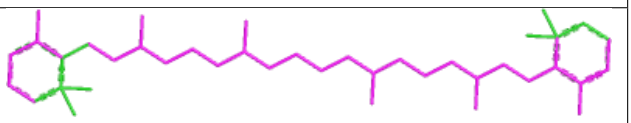


Rings

Ligand BCR A 851

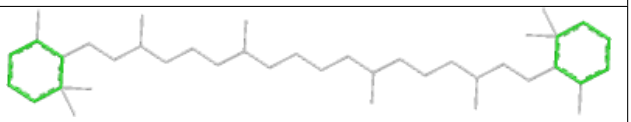


Bond lengths



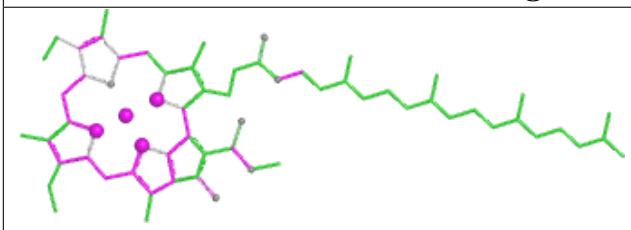
Bond angles

Torsions

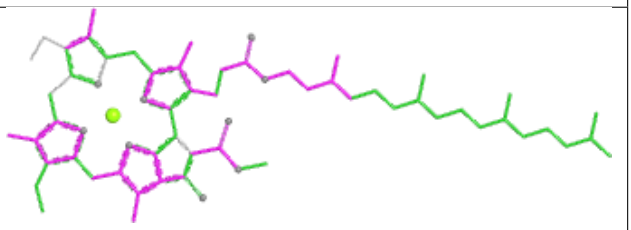


Rings

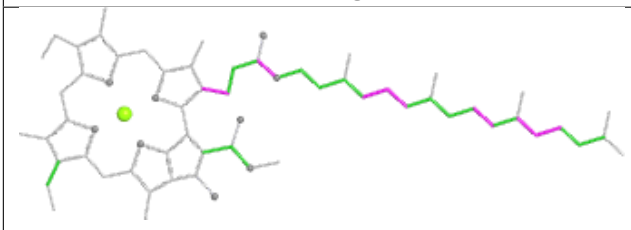
Ligand CLA B 818



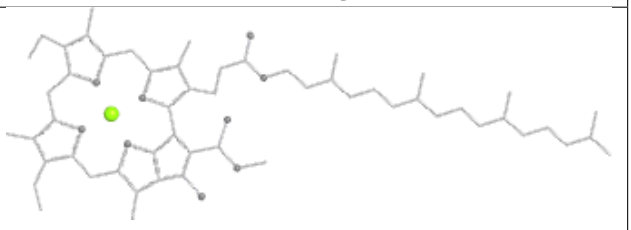
Bond lengths



Bond angles

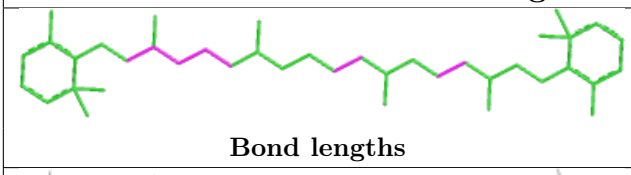


Torsions

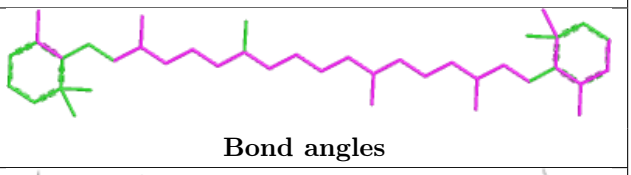


Rings

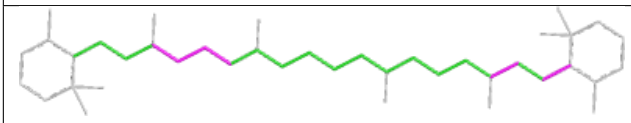
Ligand BCR I 102



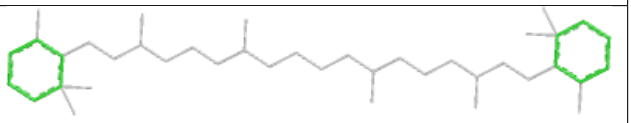
Bond lengths



Bond angles

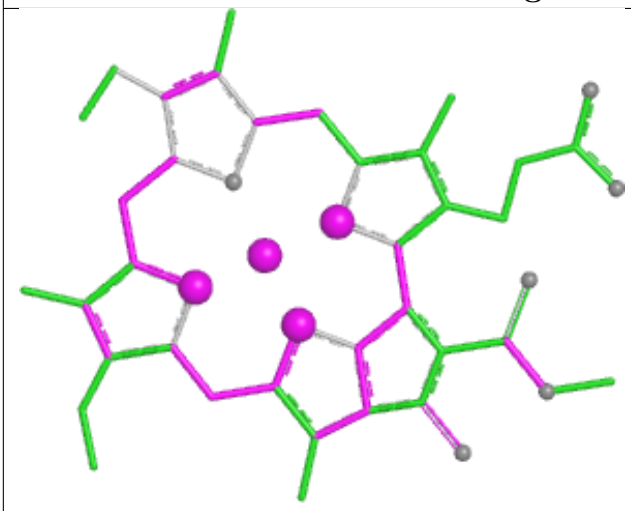


Torsions

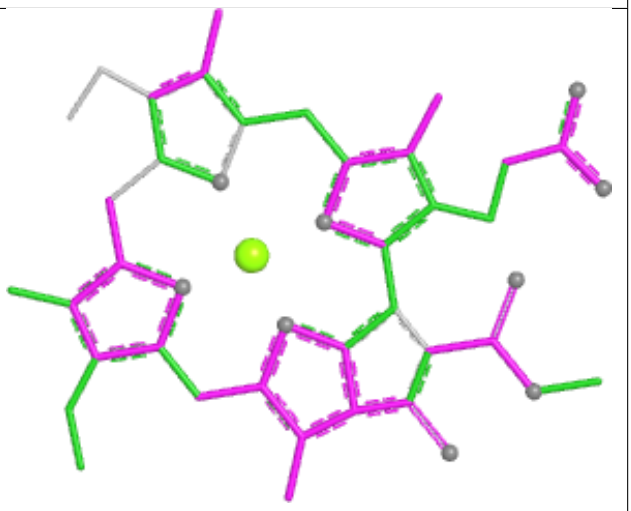


Rings

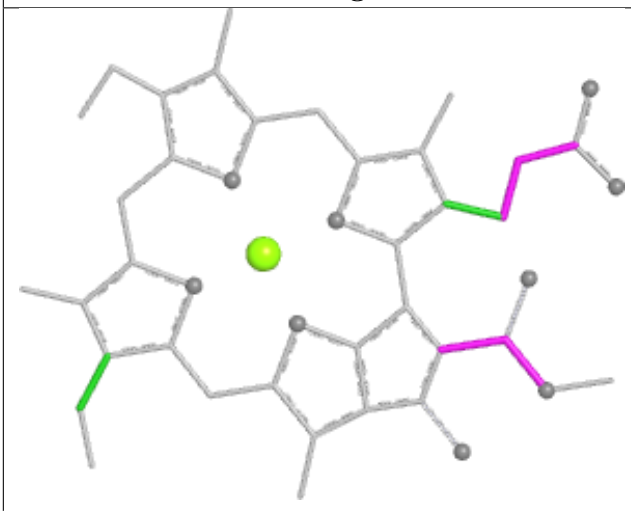
Ligand CLA B 814



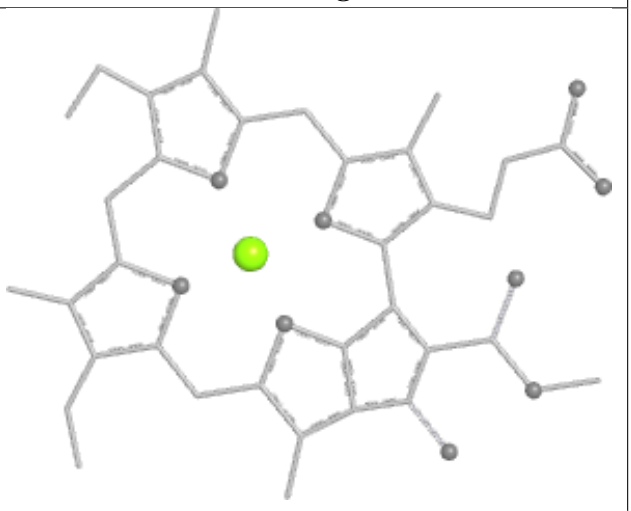
Bond lengths



Bond angles

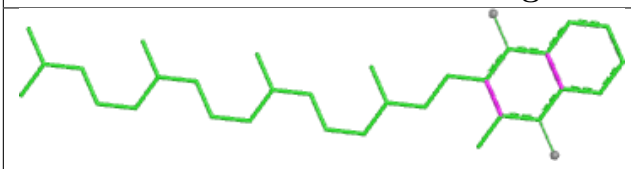


Torsions

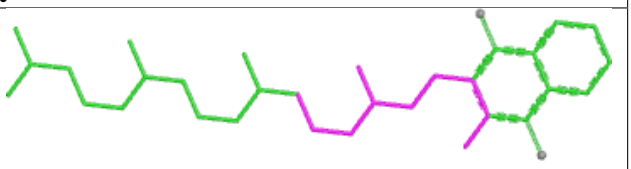


Rings

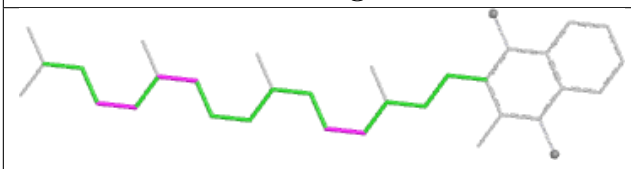
Ligand PQN B 841



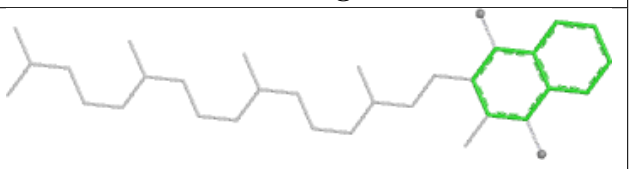
Bond lengths



Bond angles

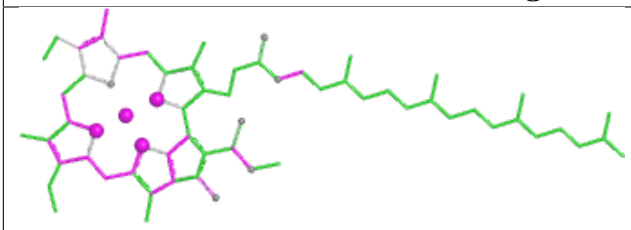


Torsions

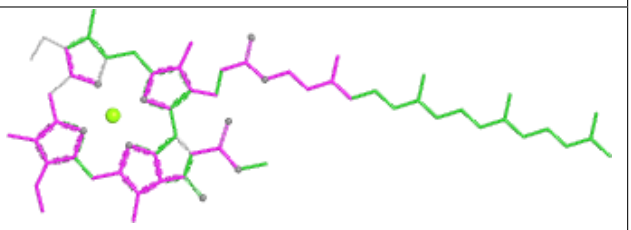


Rings

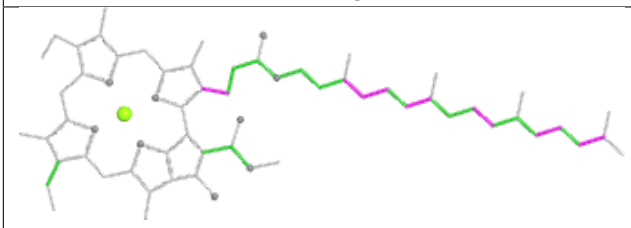
Ligand CLA B 809



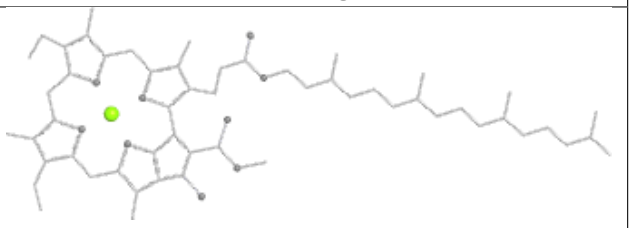
Bond lengths



Bond angles

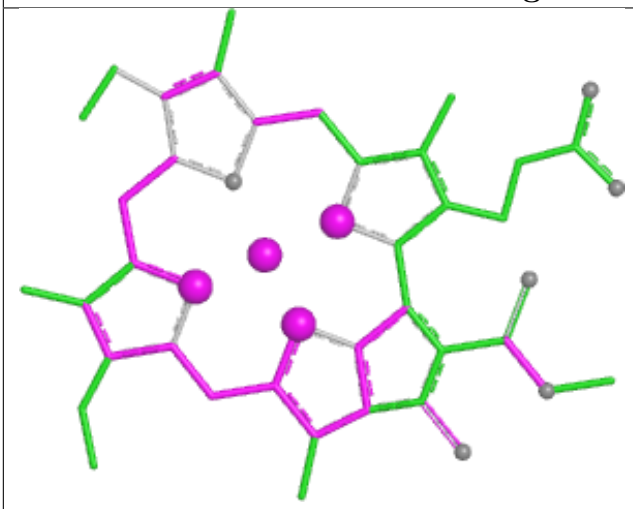


Torsions

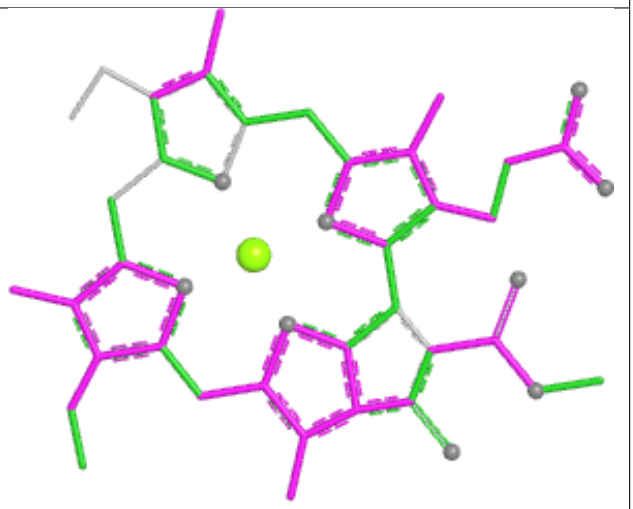


Rings

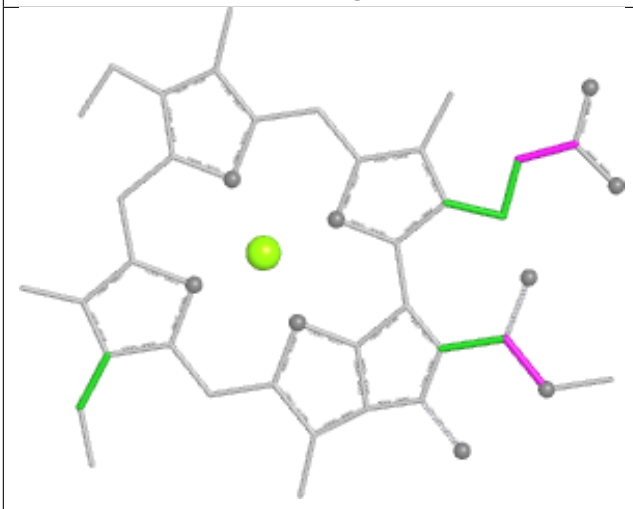
Ligand CLA G 808



Bond lengths



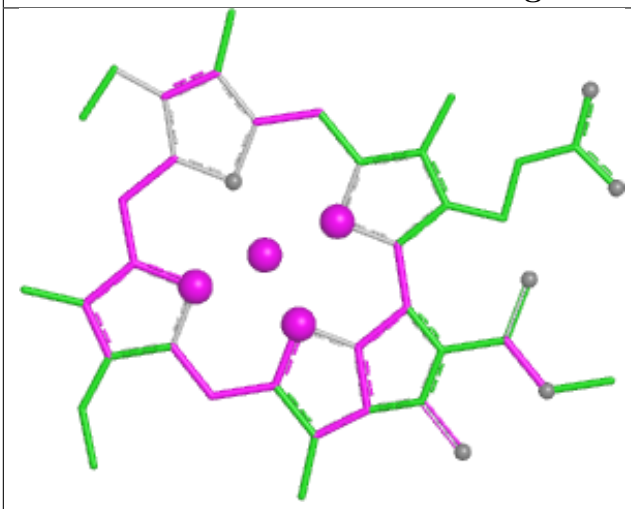
Bond angles



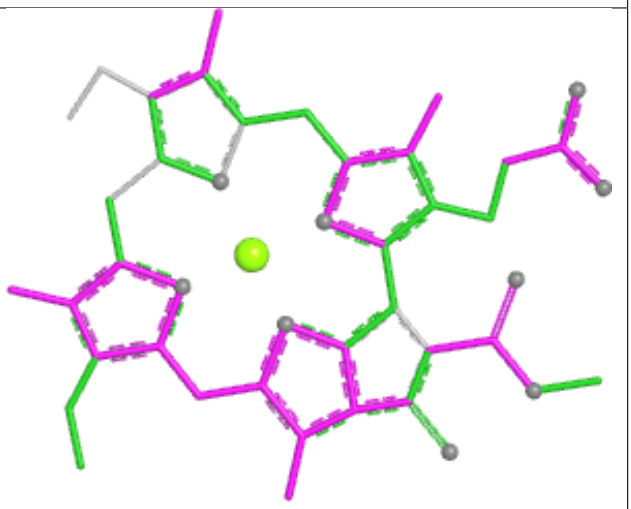
Torsions

Rings

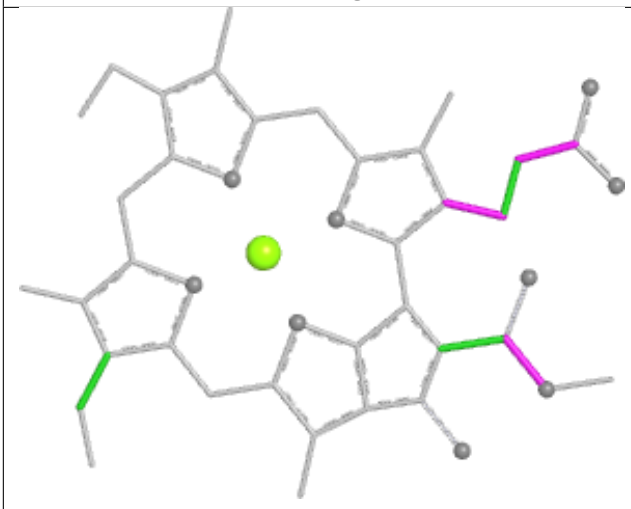
Ligand CLA B 819



Bond lengths



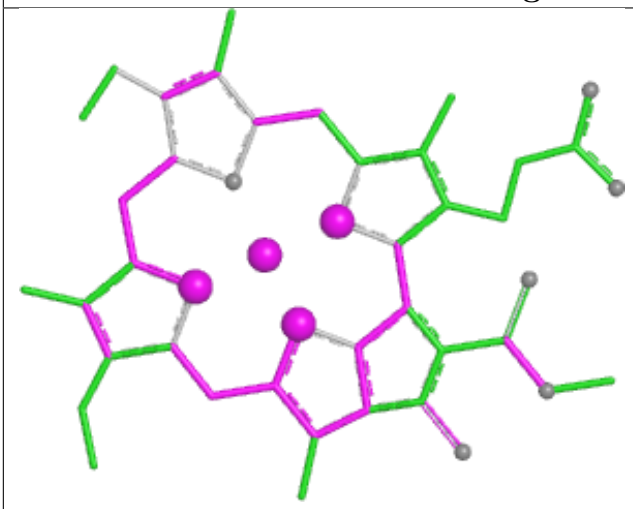
Bond angles



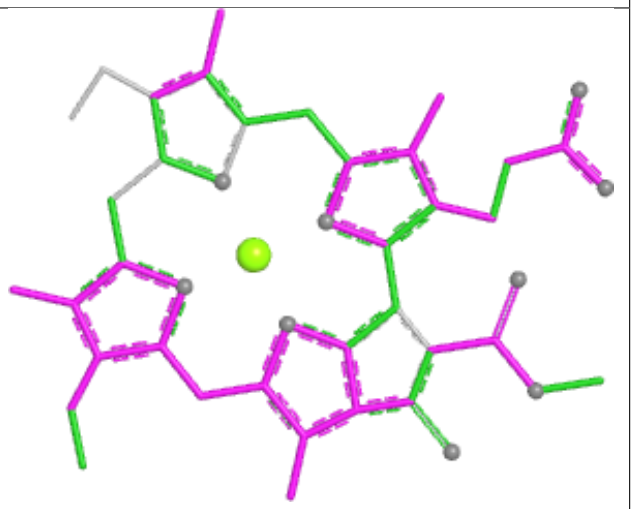
Torsions

Rings

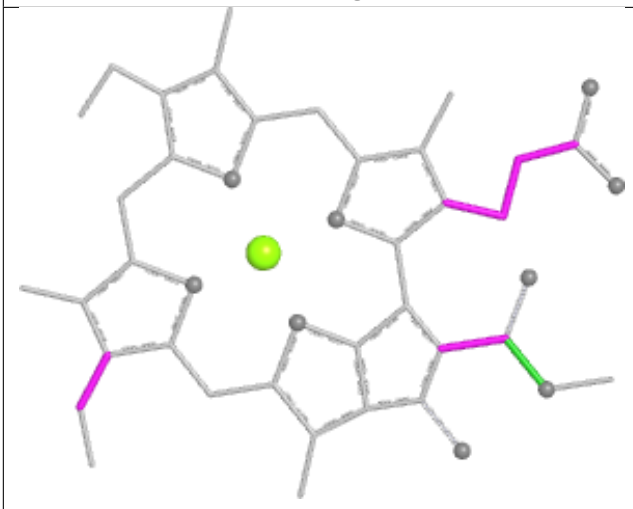
Ligand CLA G 845



Bond lengths



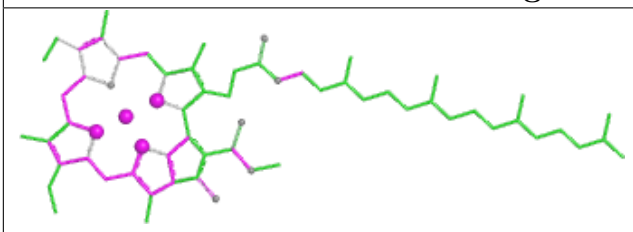
Bond angles



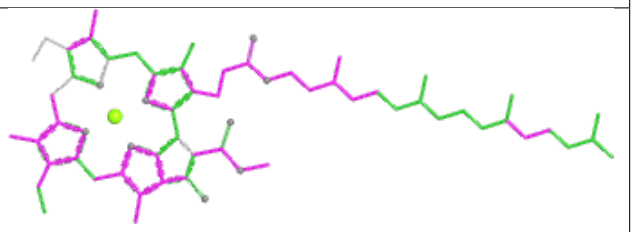
Torsions

Rings

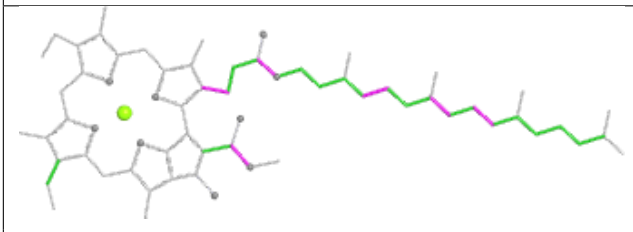
Ligand CLA A 822



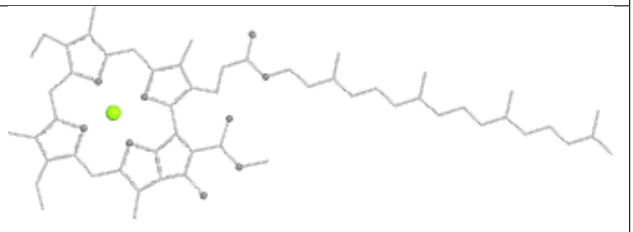
Bond lengths



Bond angles

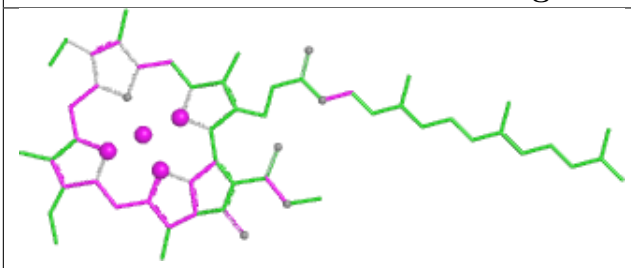


Torsions

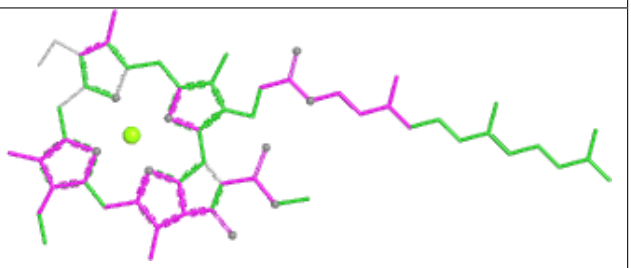


Rings

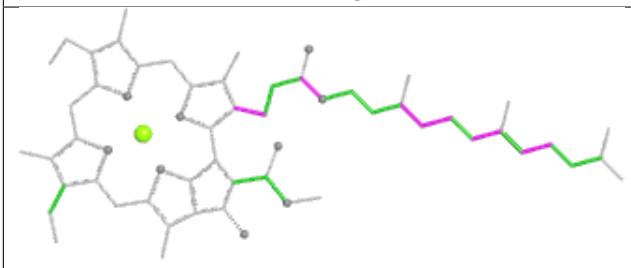
Ligand CLA l 205



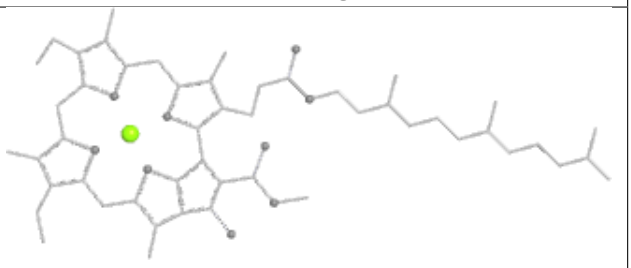
Bond lengths



Bond angles

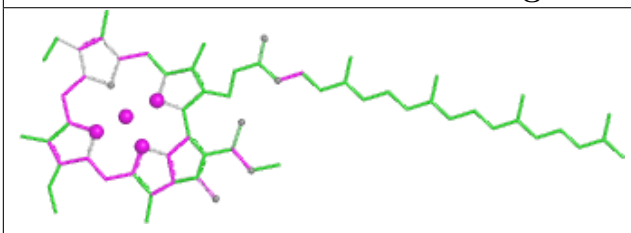


Torsions

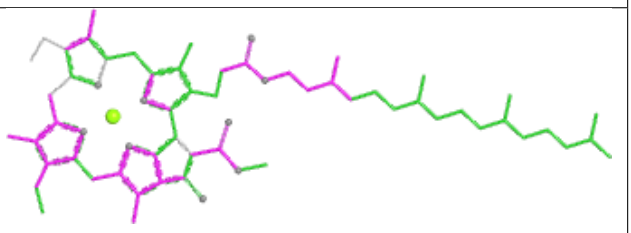


Rings

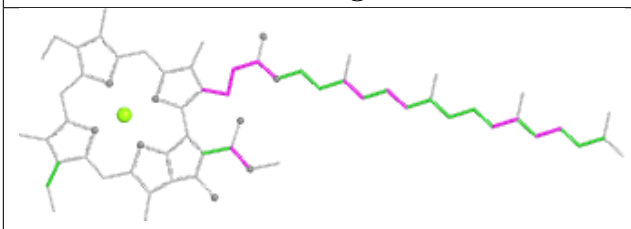
Ligand CLA H 826



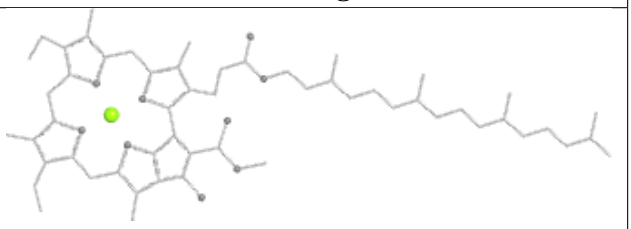
Bond lengths



Bond angles

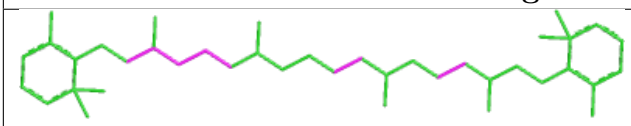


Torsions

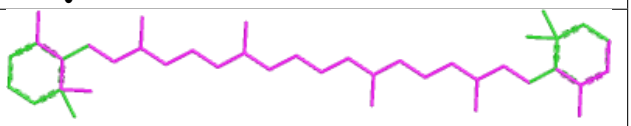


Rings

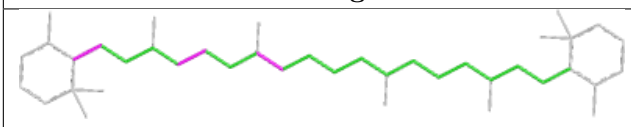
Ligand BCR Q 204



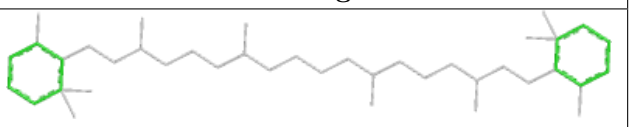
Bond lengths



Bond angles

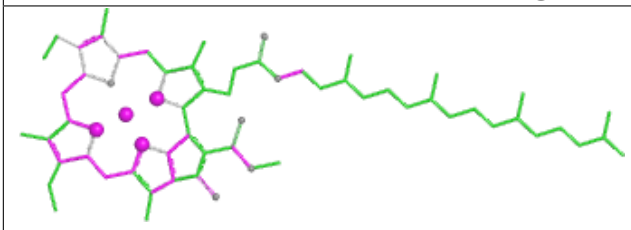


Torsions

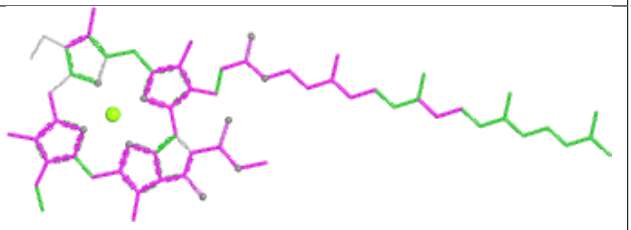


Rings

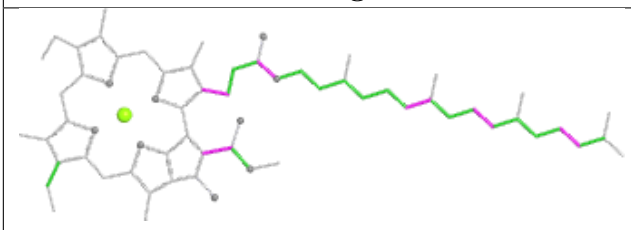
Ligand CLA l 202



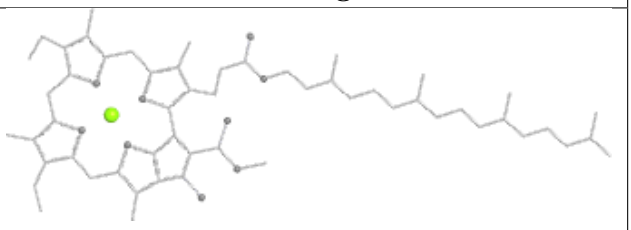
Bond lengths



Bond angles

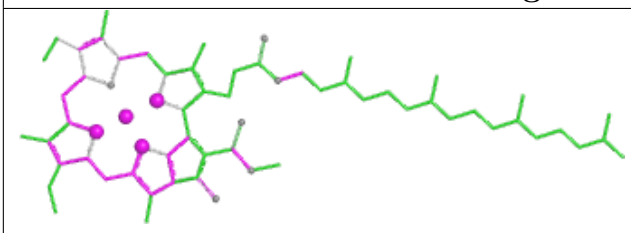


Torsions

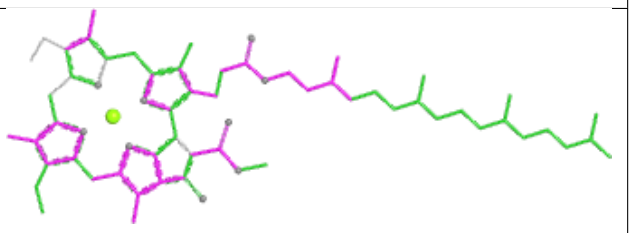


Rings

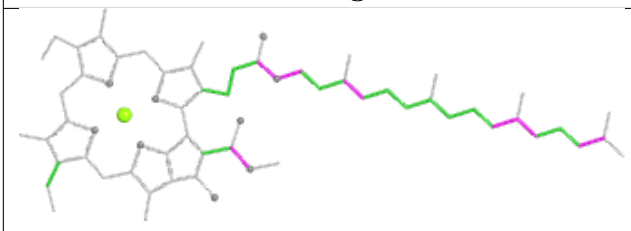
Ligand CLA G 834



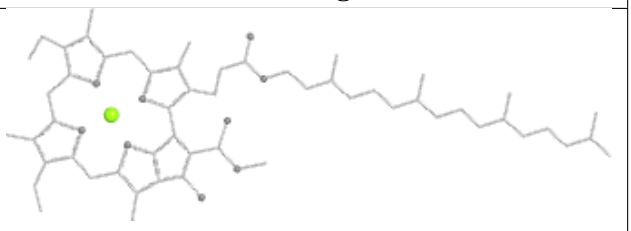
Bond lengths



Bond angles

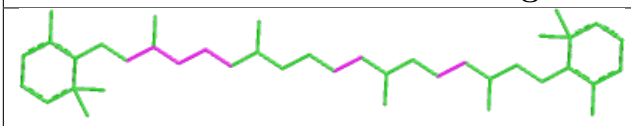


Torsions

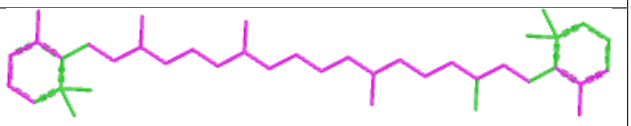


Rings

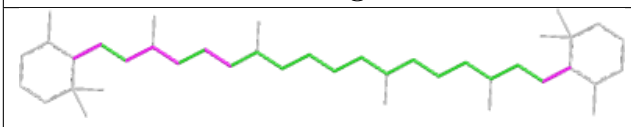
Ligand BCR G 851



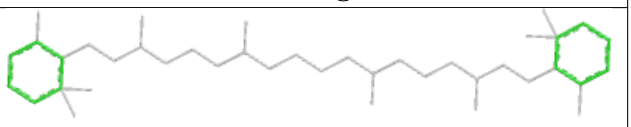
Bond lengths



Bond angles

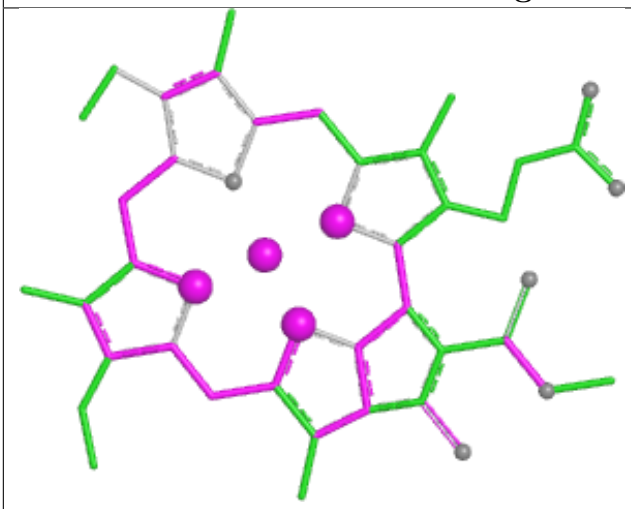


Torsions

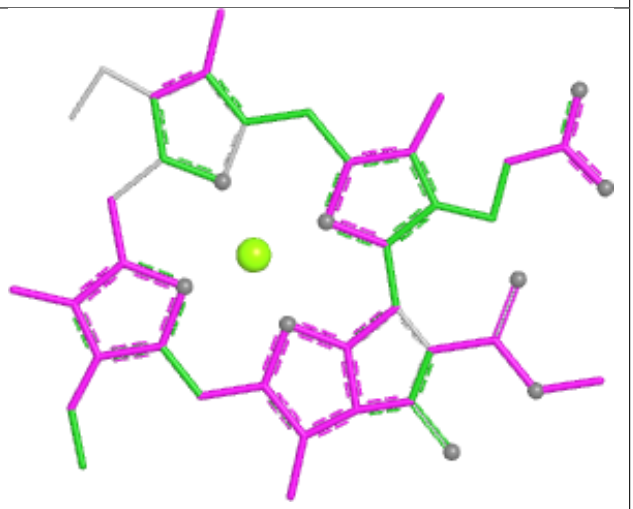


Rings

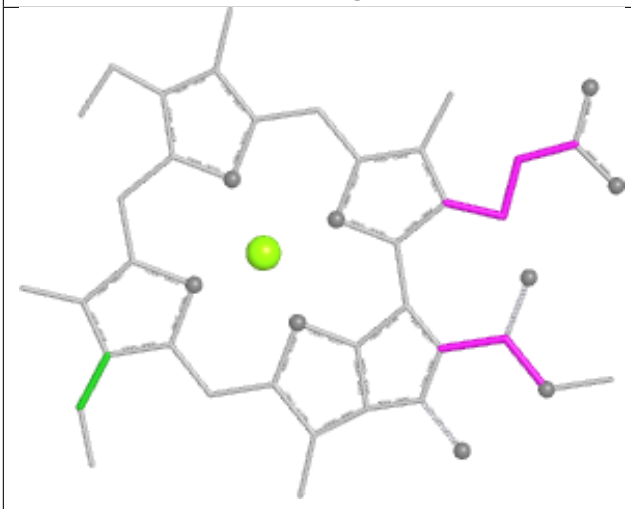
Ligand CLA V 1601



Bond lengths



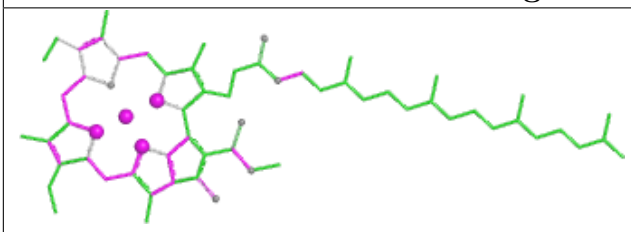
Bond angles



Torsions

Rings

Ligand CLA H 805



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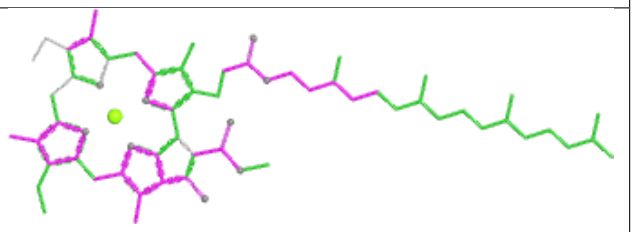
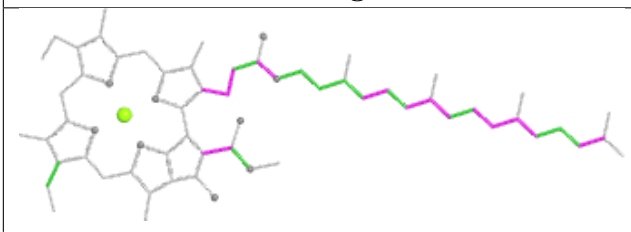
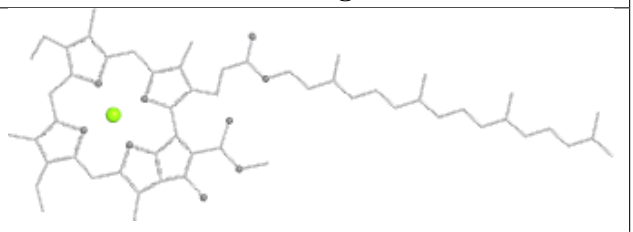


Bond angles

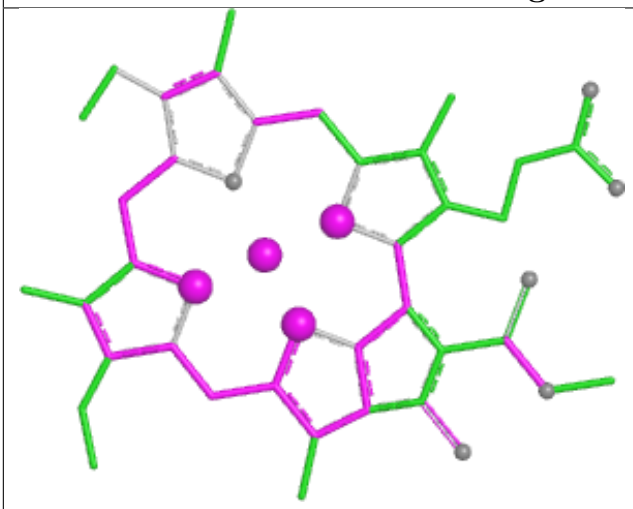


Torsions



Rings

Ligand CLA a 815



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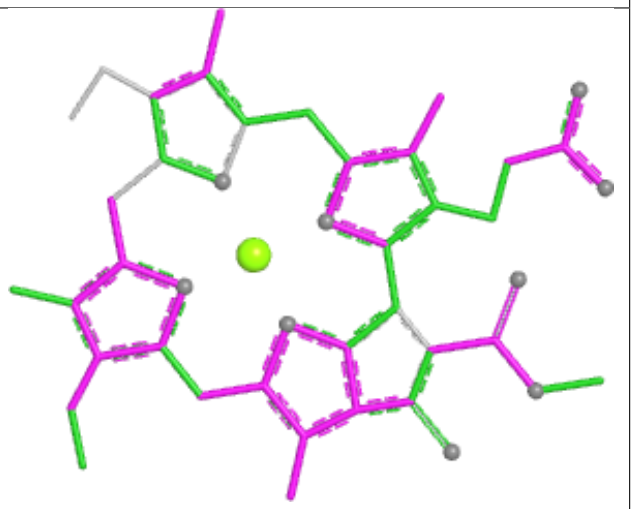
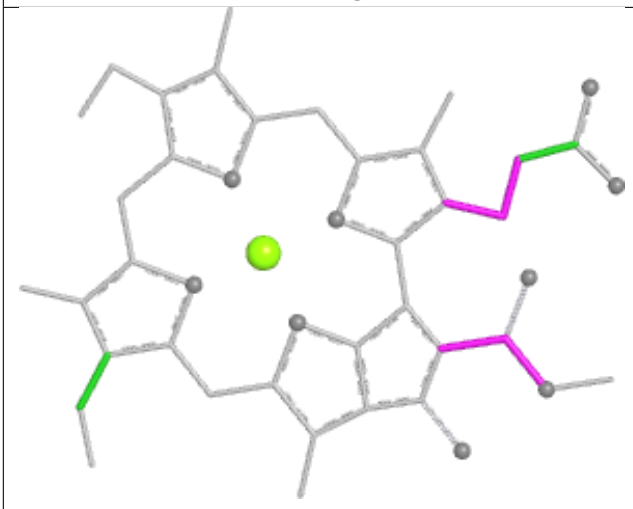


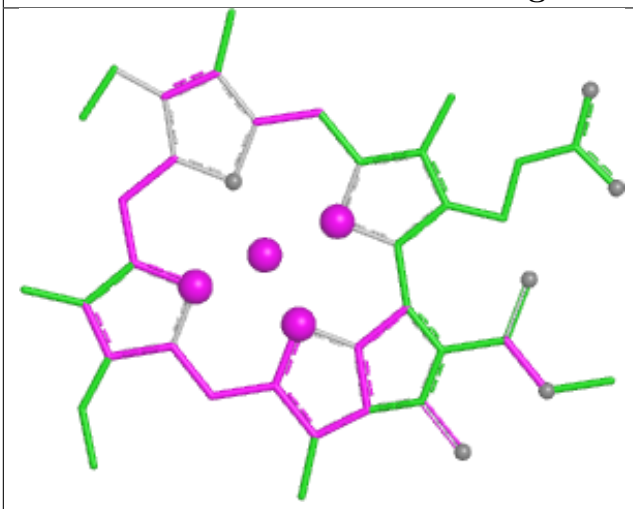
Bond angles



Torsions

Rings

Ligand CLA a 810



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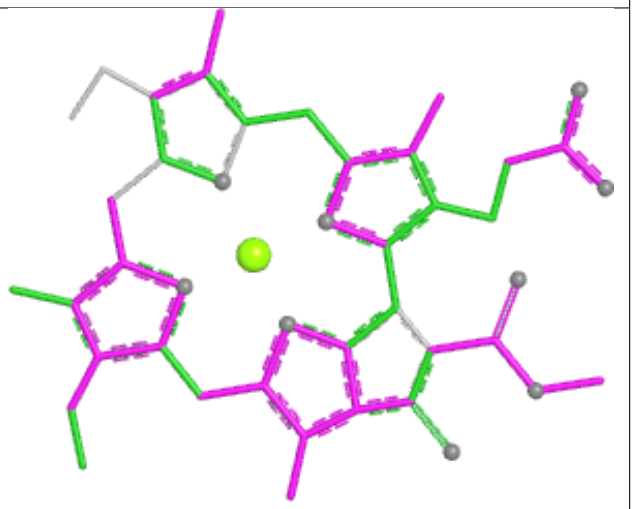
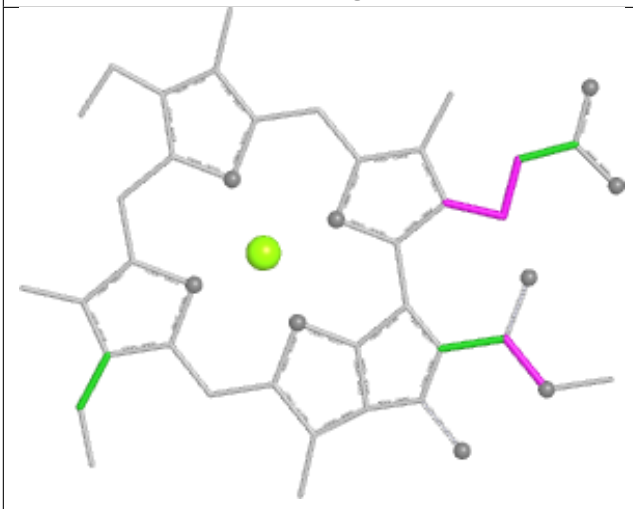


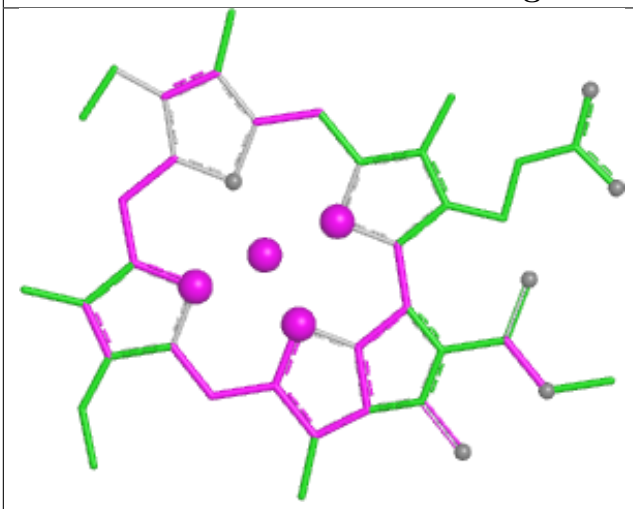
Bond angles



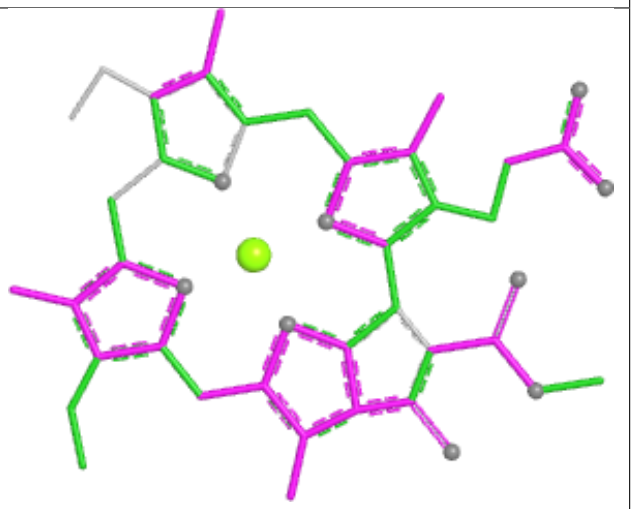
Torsions

Rings

Ligand CLA H 820



Bond lengths



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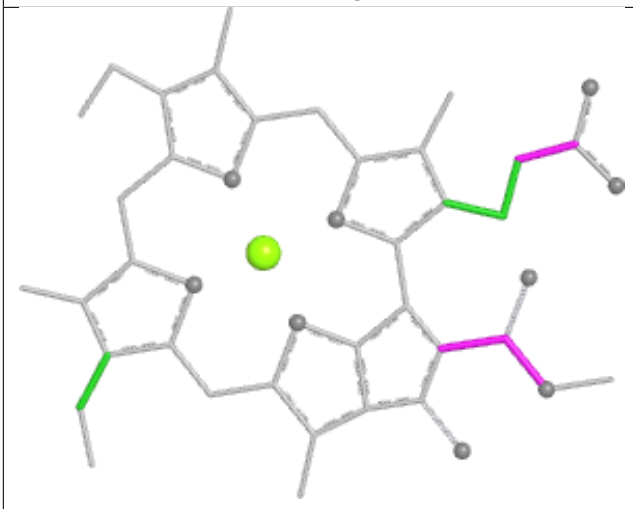
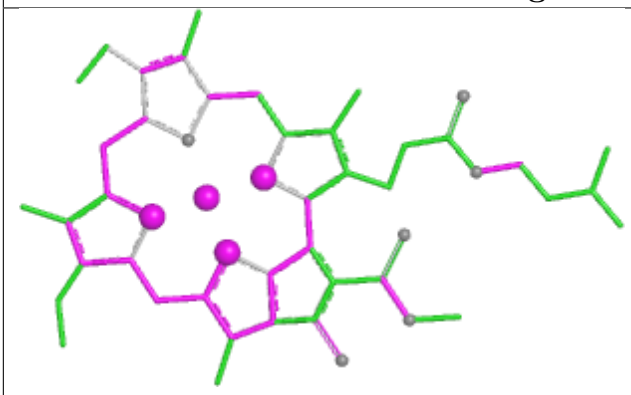


Torsions

Rings

Ligand CLA a 812



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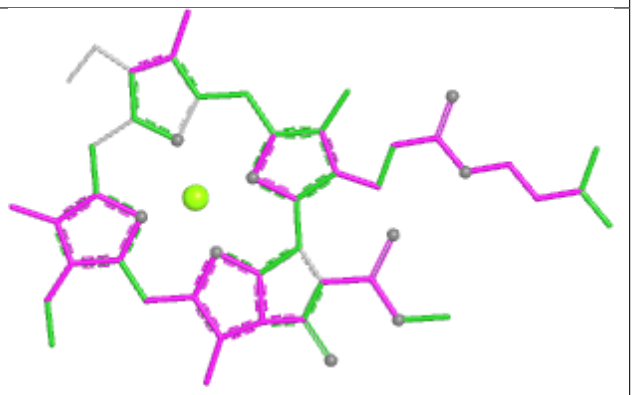
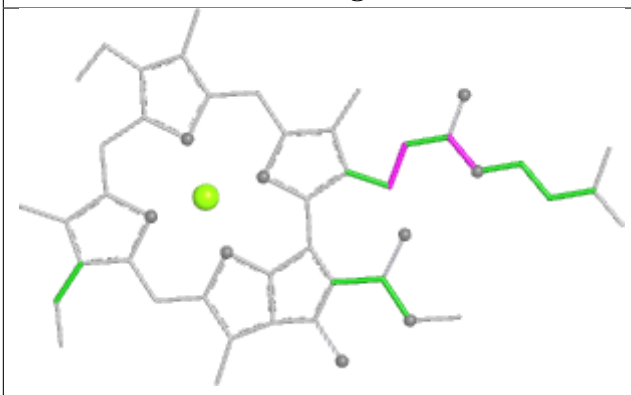
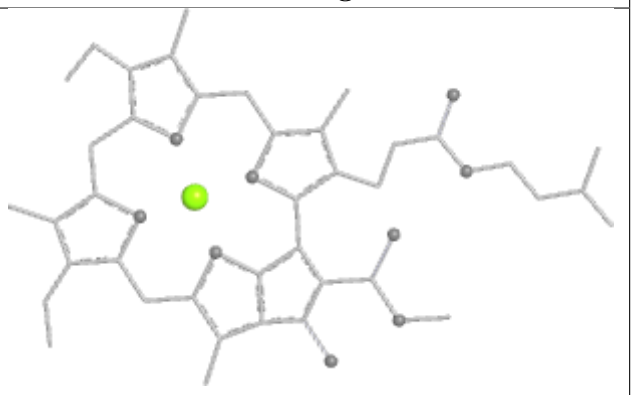


Bond angles

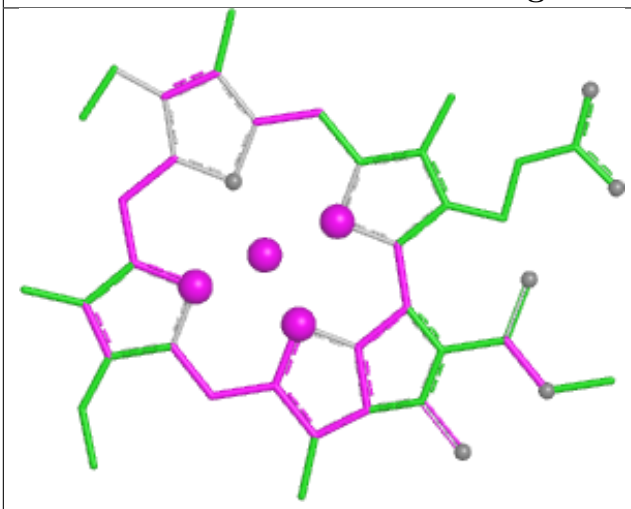


Torsions



Rings

Ligand CLA b 815



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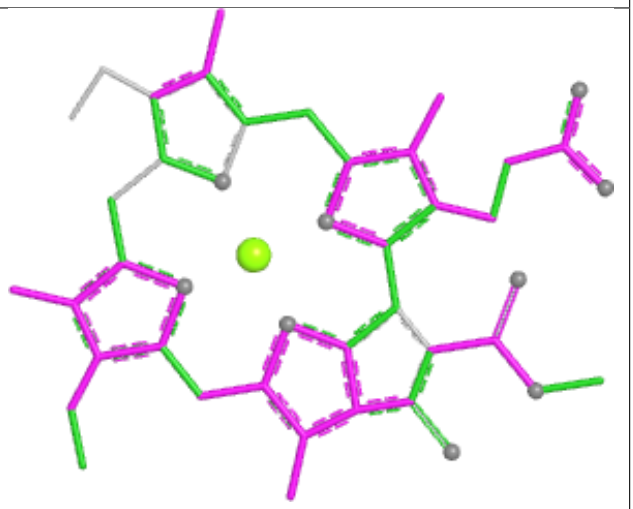
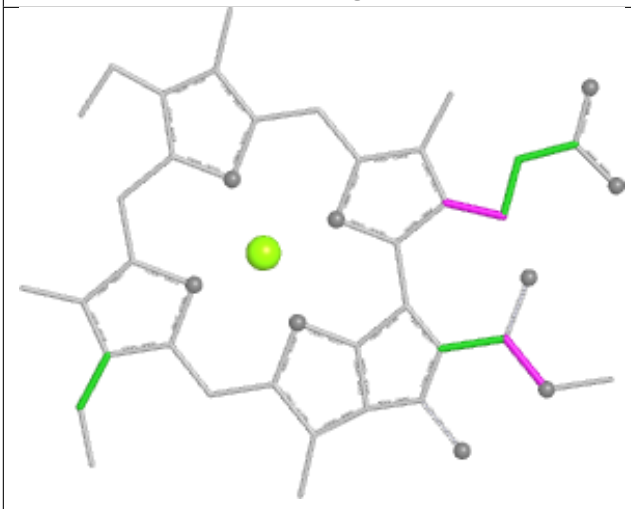


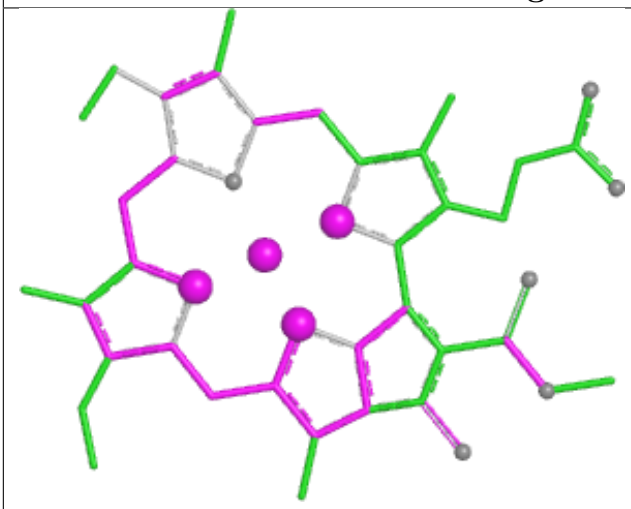
Bond angles



Torsions

Rings

Ligand CLA b 810



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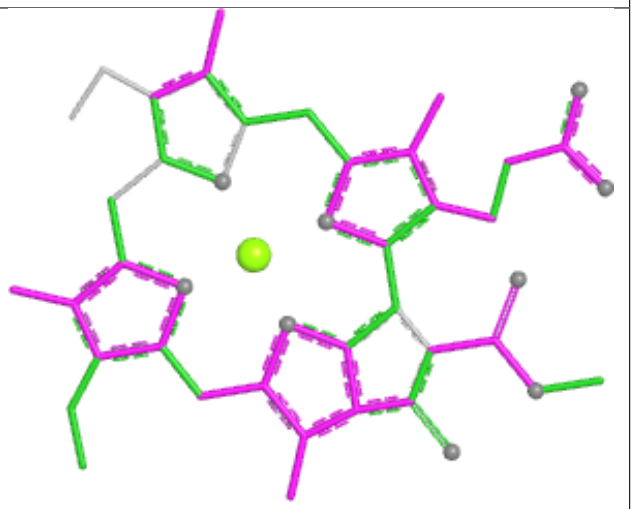
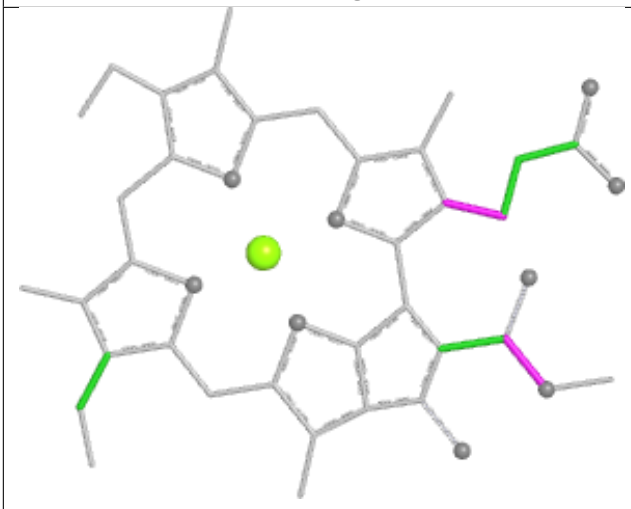


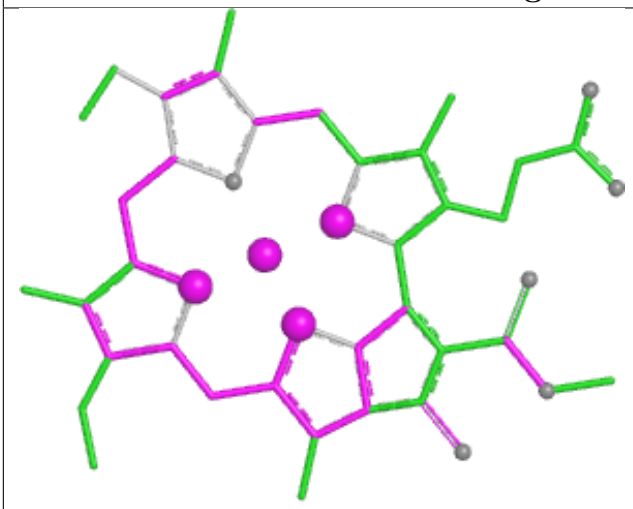
Bond angles



Torsions

Rings

Ligand CLA B 811



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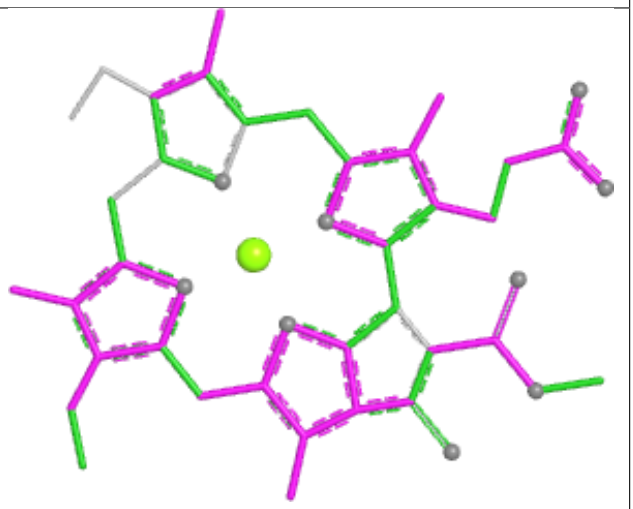
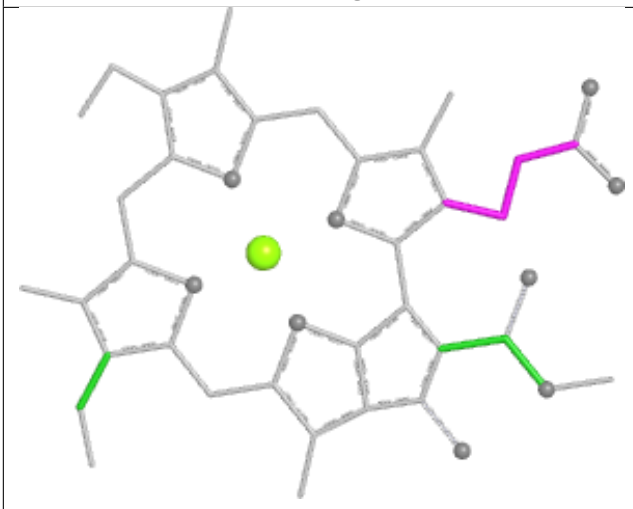


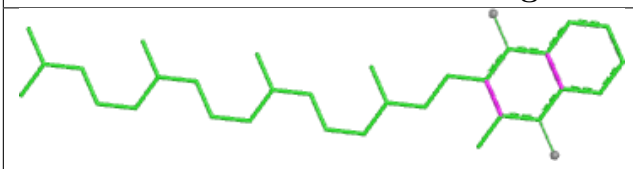
Bond angles



Torsions

Rings

Ligand PQN G 846



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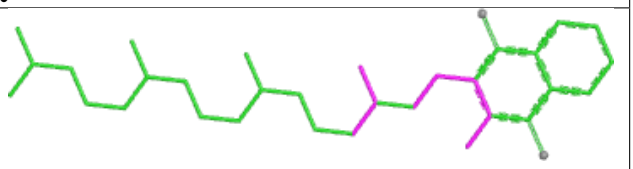
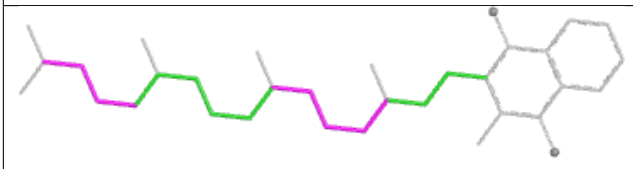


Bond angles



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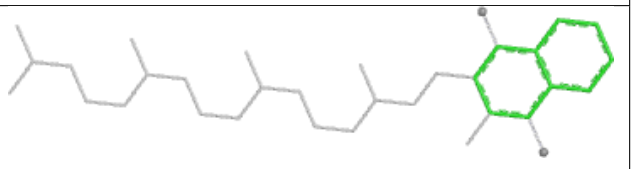
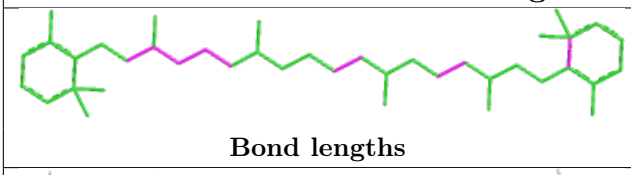


Rings

Ligand BCR I 101



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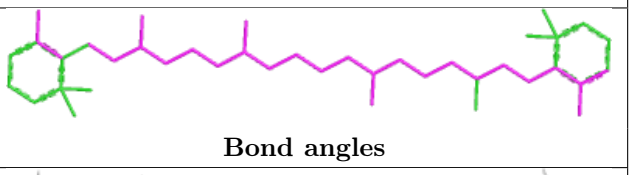
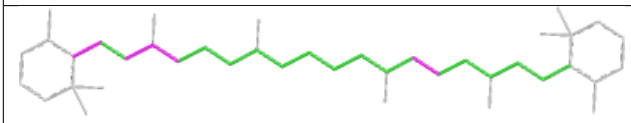


Bond angles



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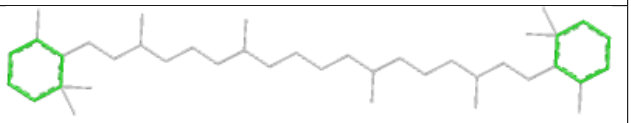
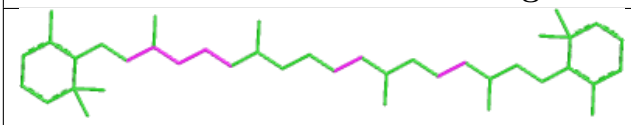


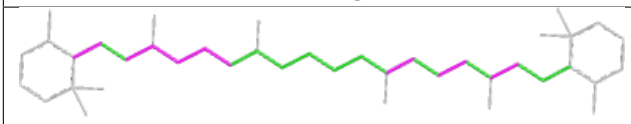
Rings

Ligand BCR A 848

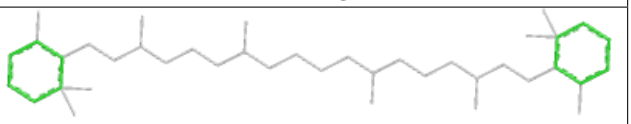


Bond lengths

Bond angles

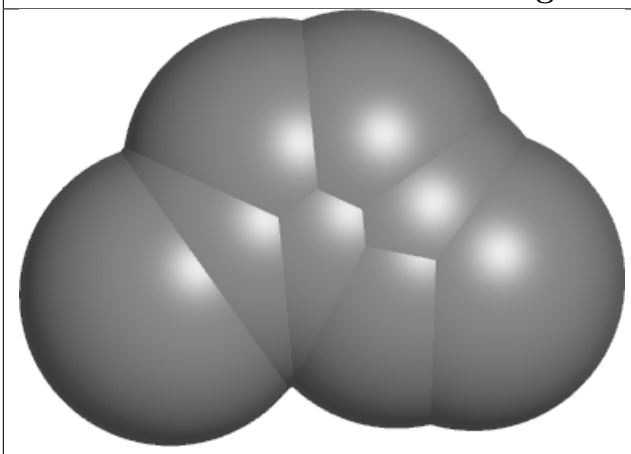


Torsions

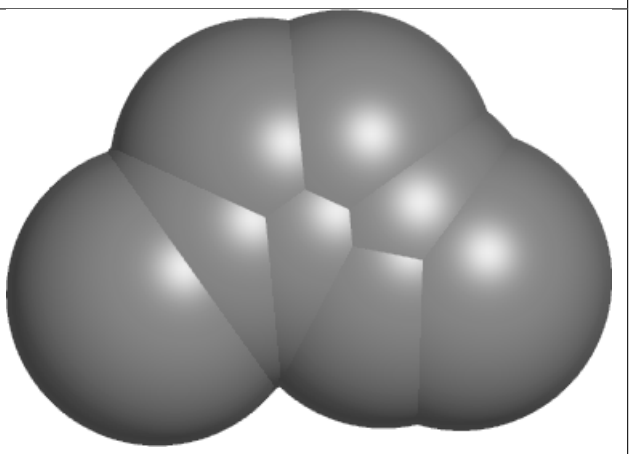


Rings

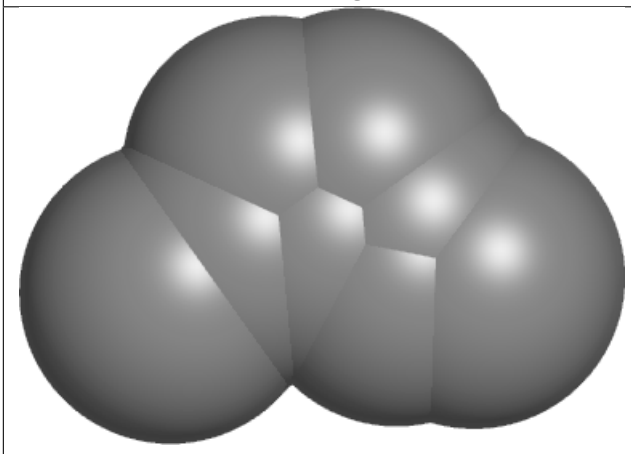
Ligand SF4 c 101



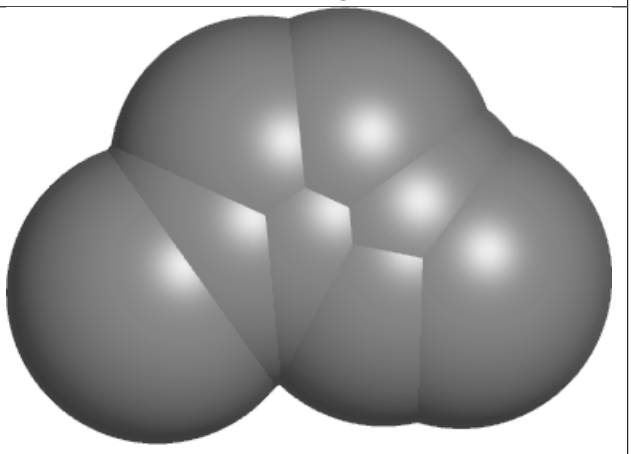
Bond lengths



Bond angles

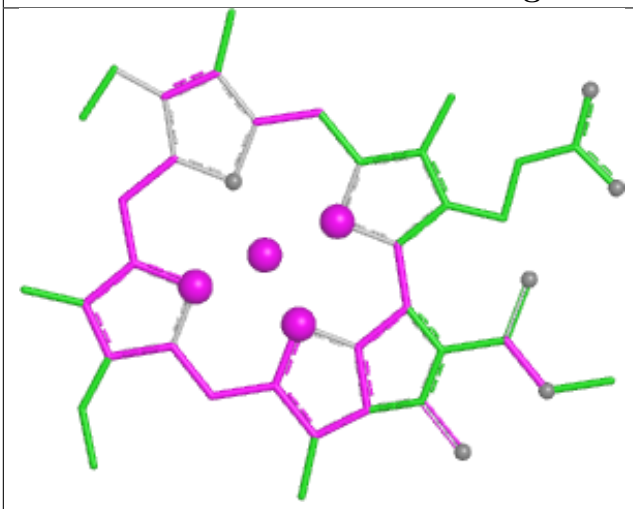


Torsions

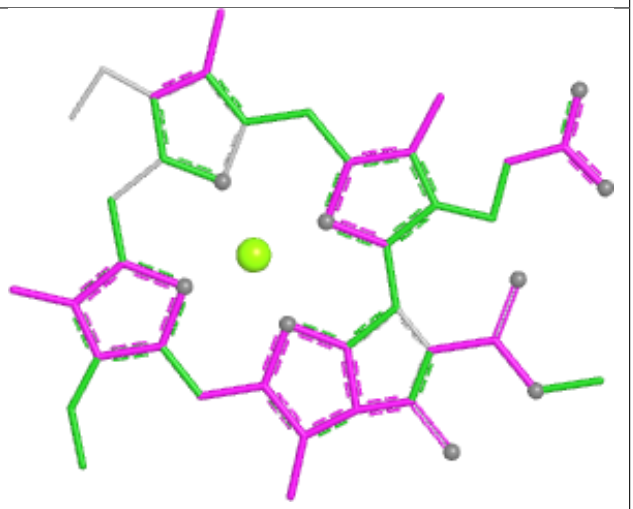


Rings

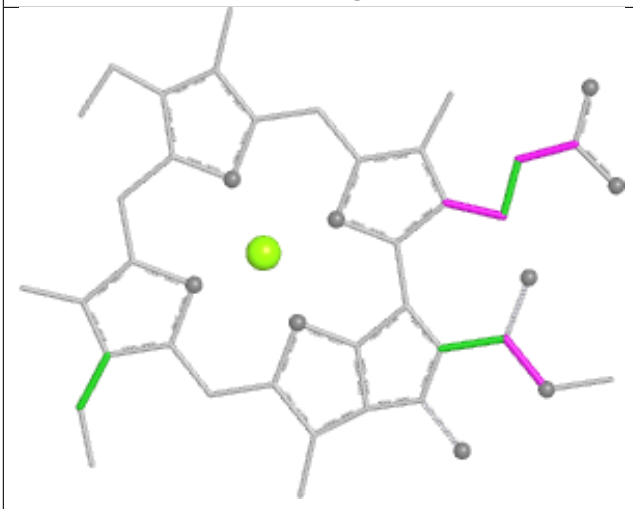
Ligand CLA H 819



Bond lengths



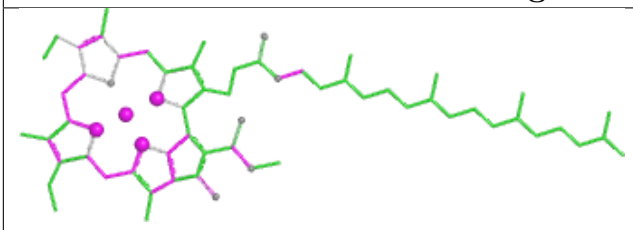
Bond angles



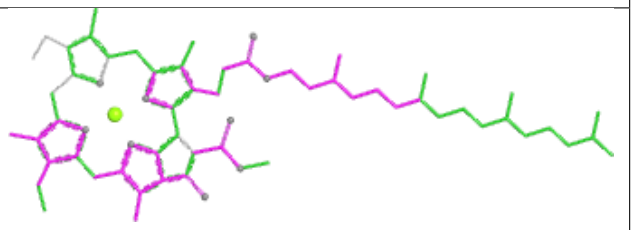
Torsions

Rings

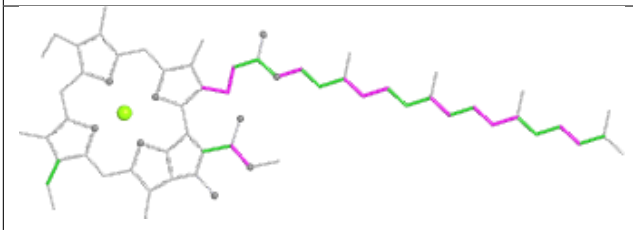
Ligand CLA a 802



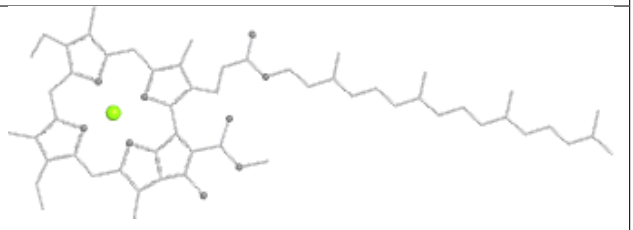
Bond lengths



Bond angles

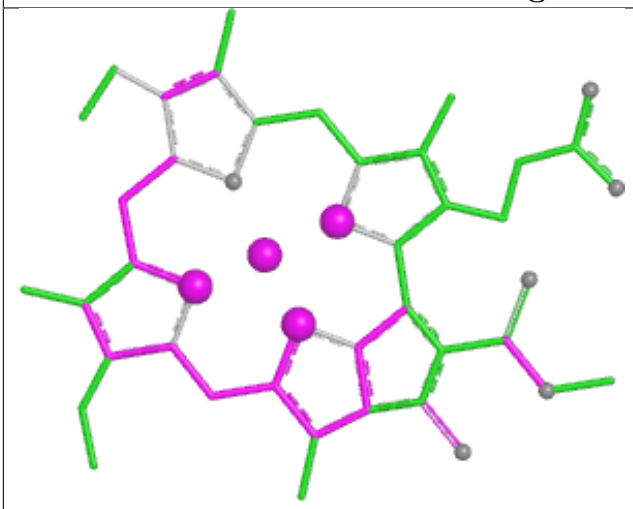


Torsions

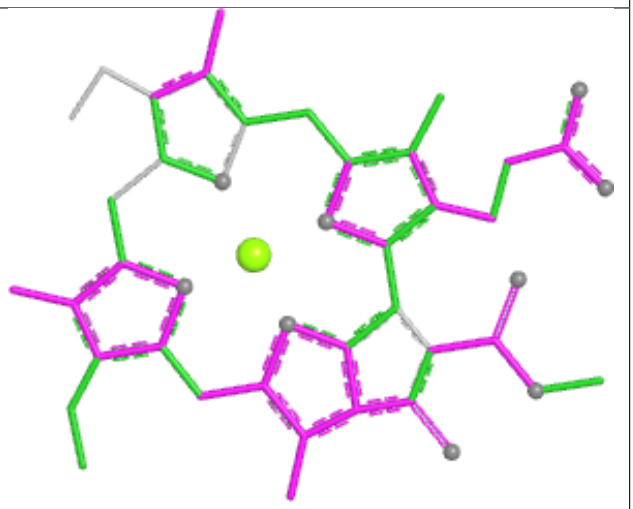


Rings

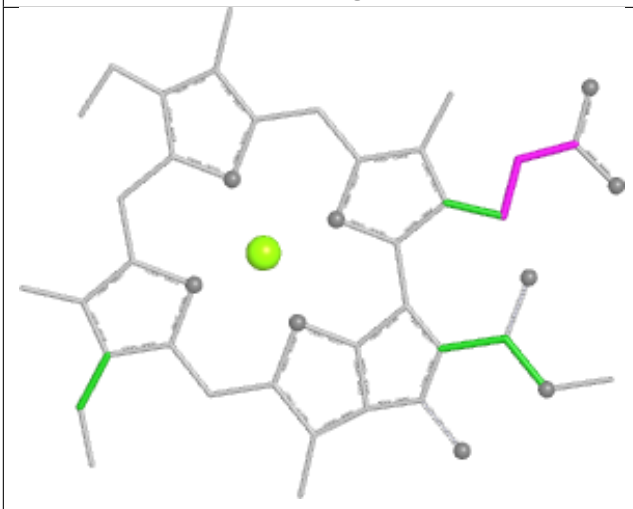
Ligand CLA a 817



Bond lengths



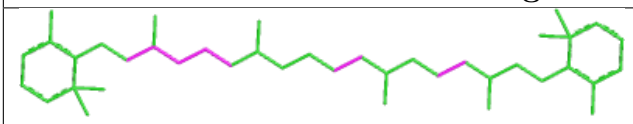
Bond angles



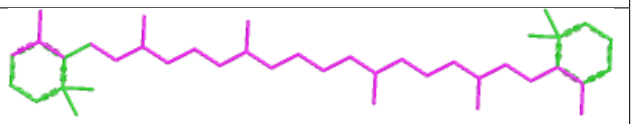
Torsions

Rings

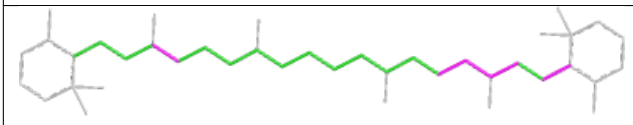
Ligand BCR B 844



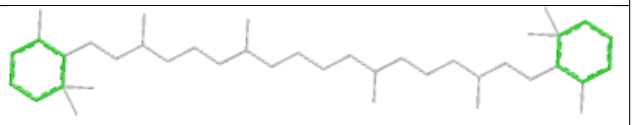
Bond lengths



Bond angles

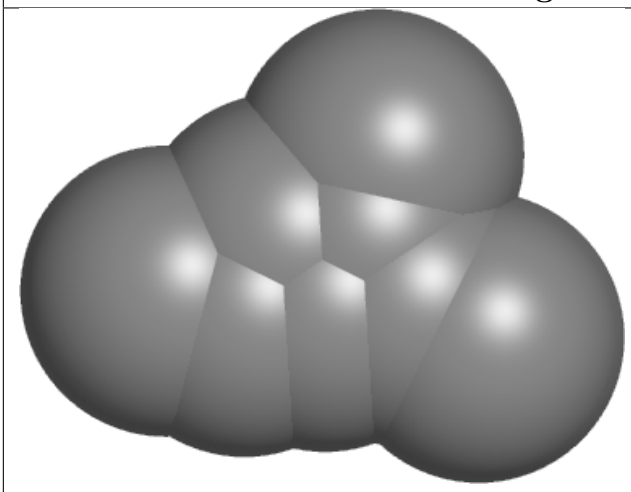


Torsions

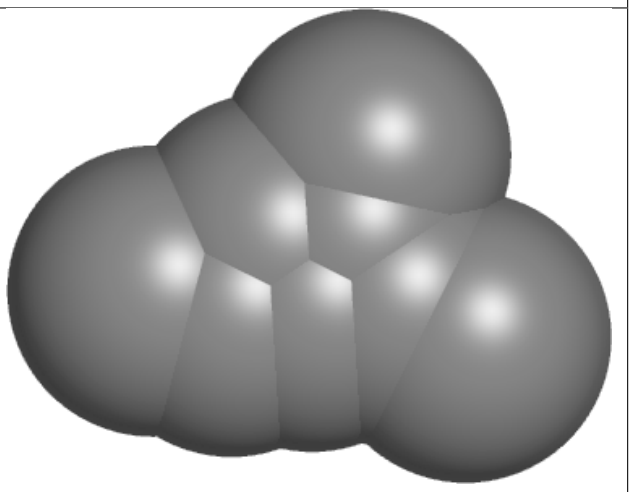


Rings

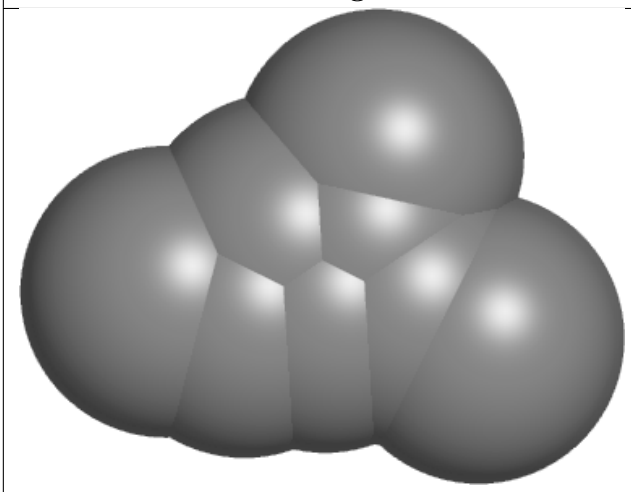
Ligand SF4 a 846



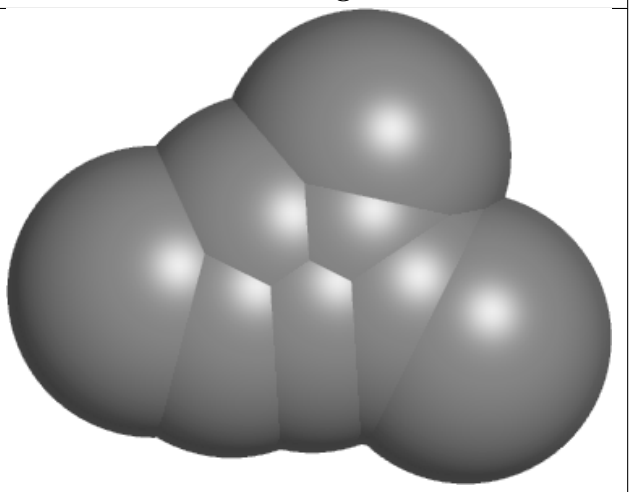
Bond lengths



Bond angles

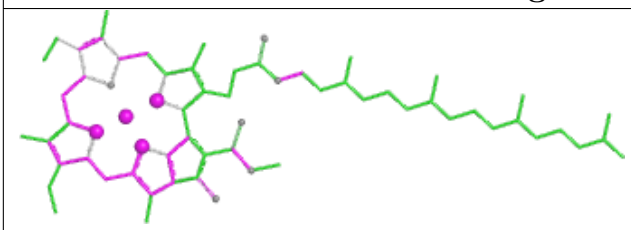


Torsions

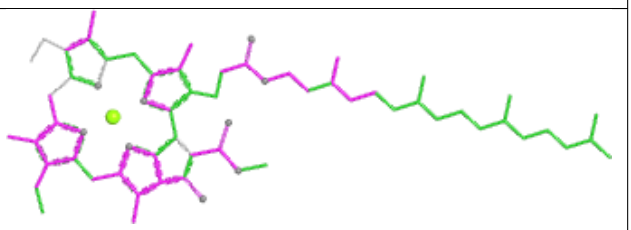


Rings

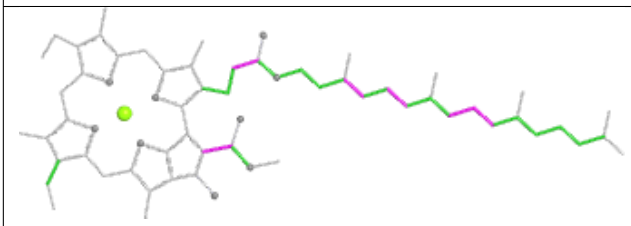
Ligand CLA a 838



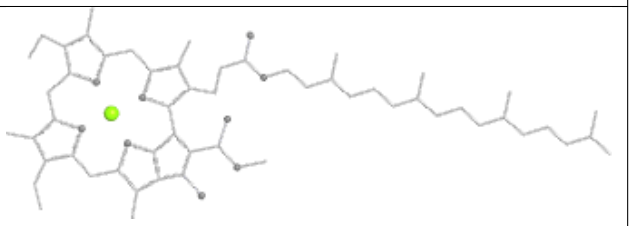
Bond lengths



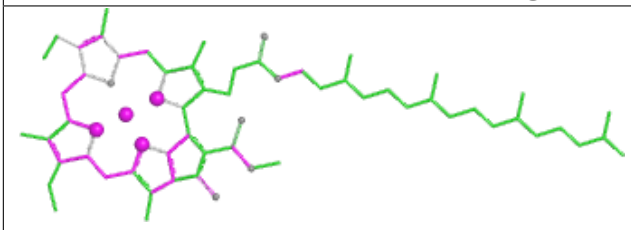
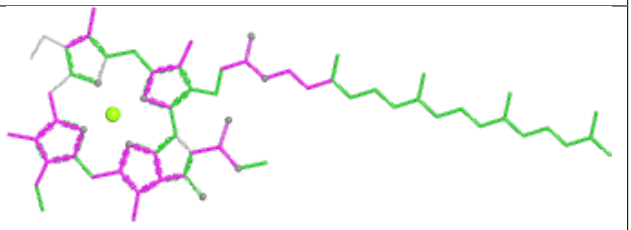
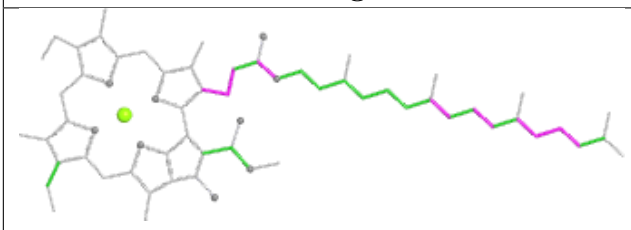
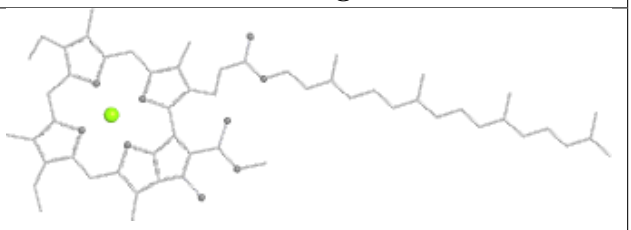
Bond angles

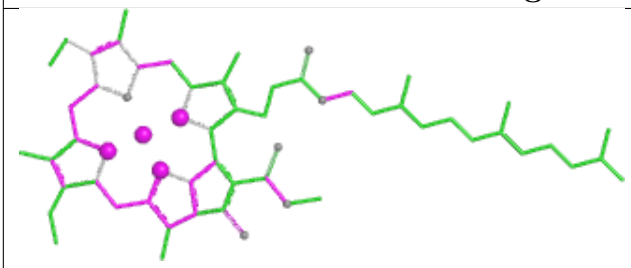
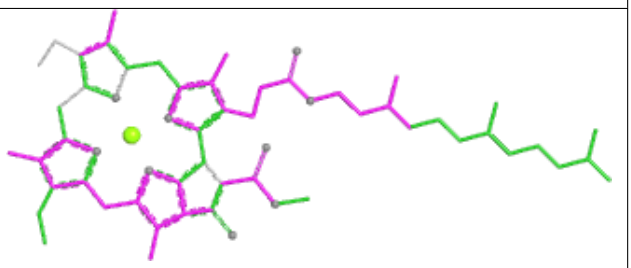
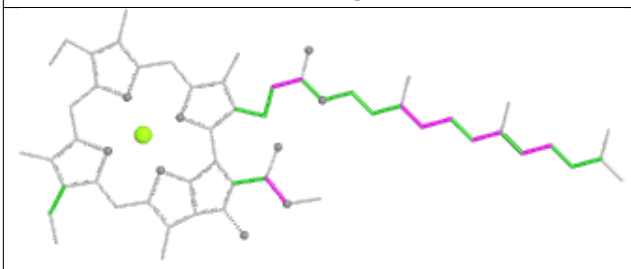
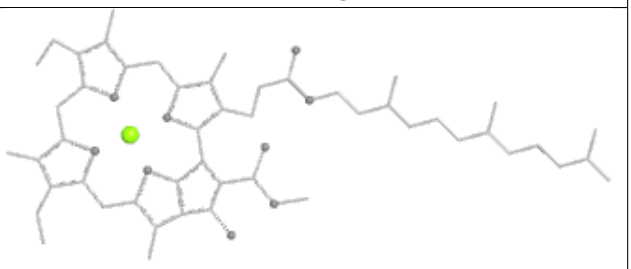


Torsions

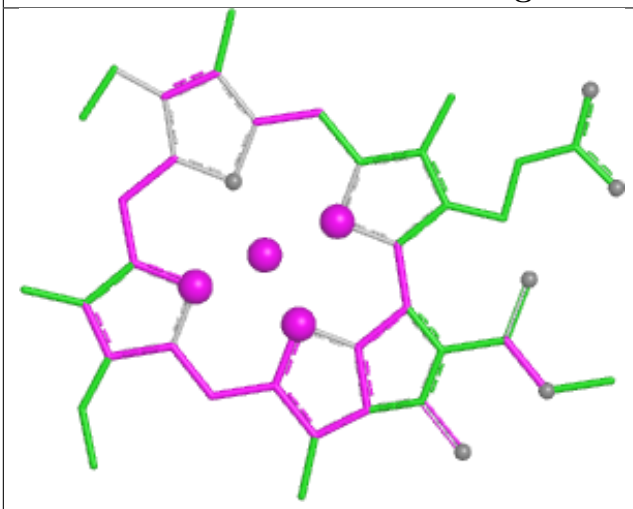


Rings

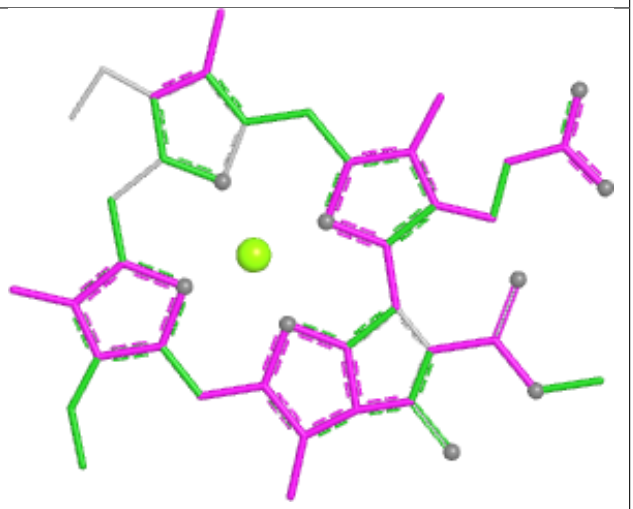
Ligand CLA B 827	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA B 837	
	
Bond lengths	Bond angles
	
Torsions	Rings

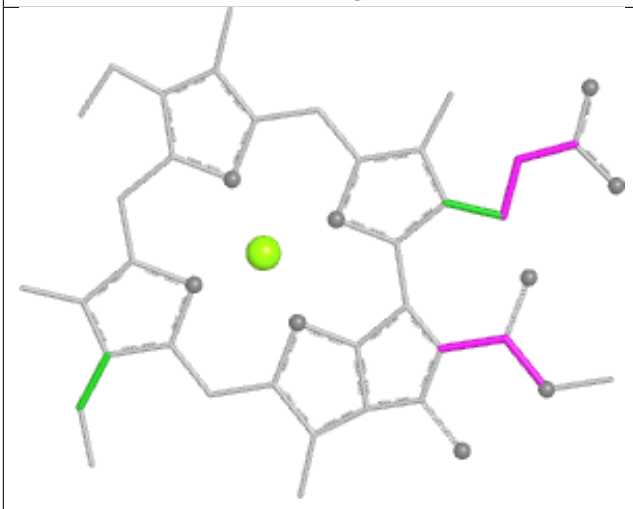
Ligand CLA X 1701



Bond lengths



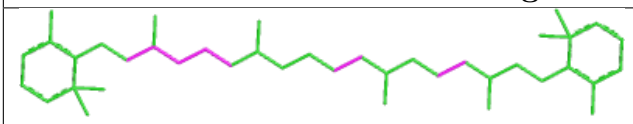
Bond angles



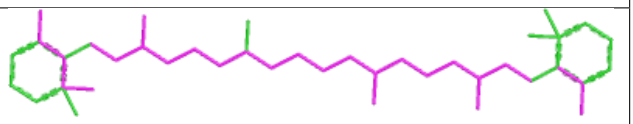
Torsions

Rings

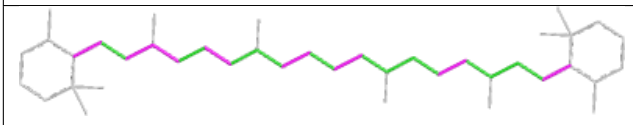
Ligand BCR H 849



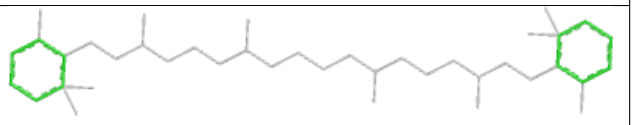
Bond lengths



Bond angles

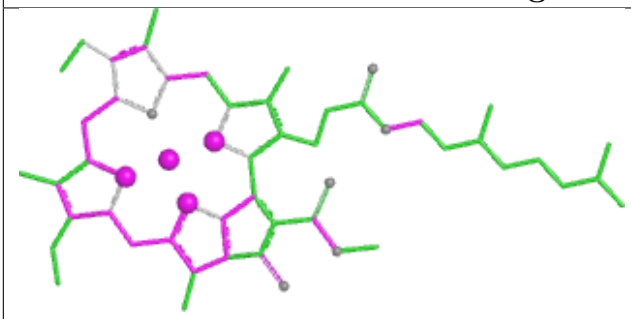


Torsions

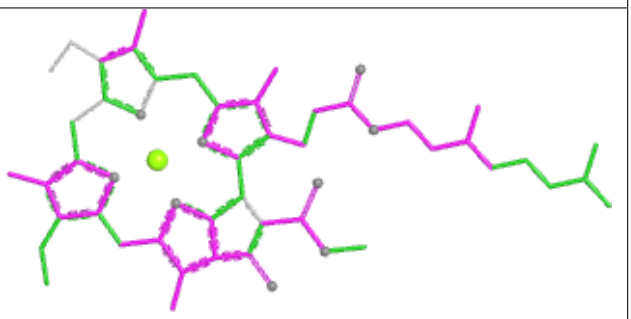


Rings

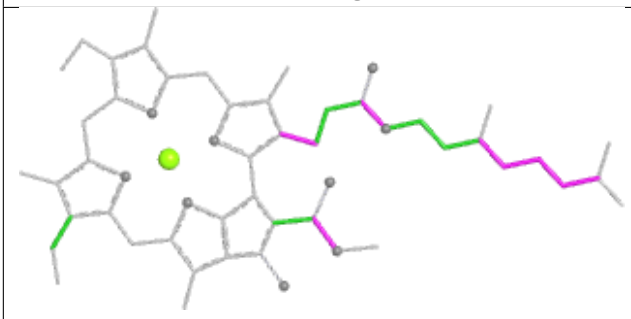
Ligand CLA a 832



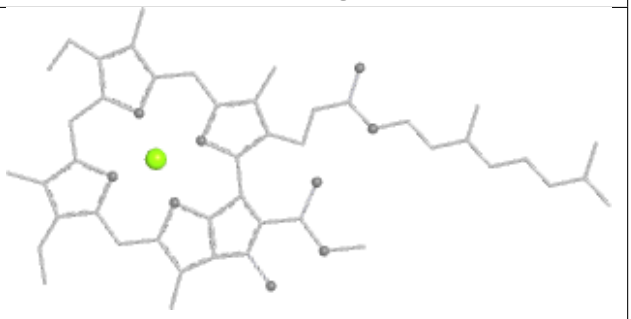
Bond lengths



Bond angles

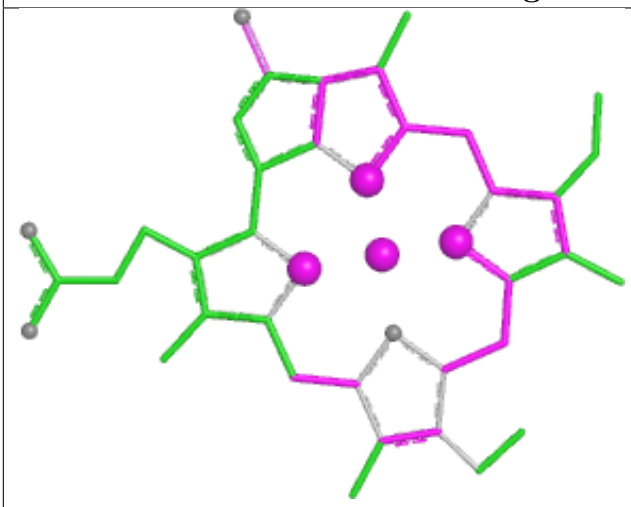


Torsions

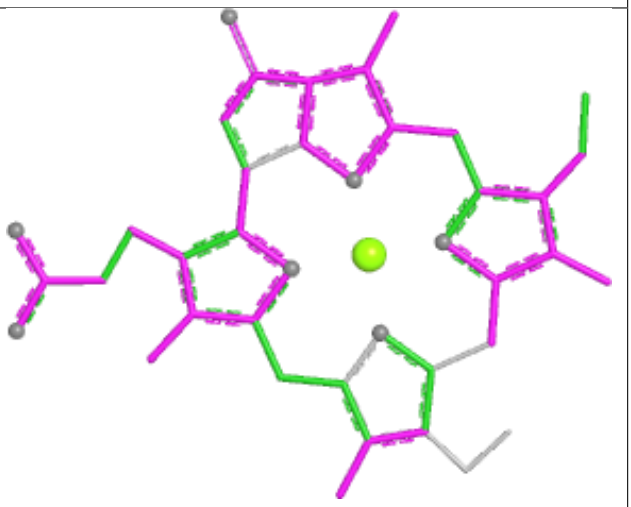


Rings

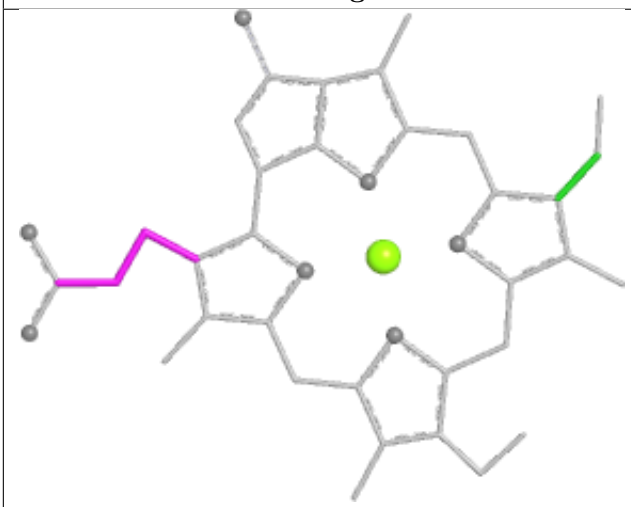
Ligand CLA K 101



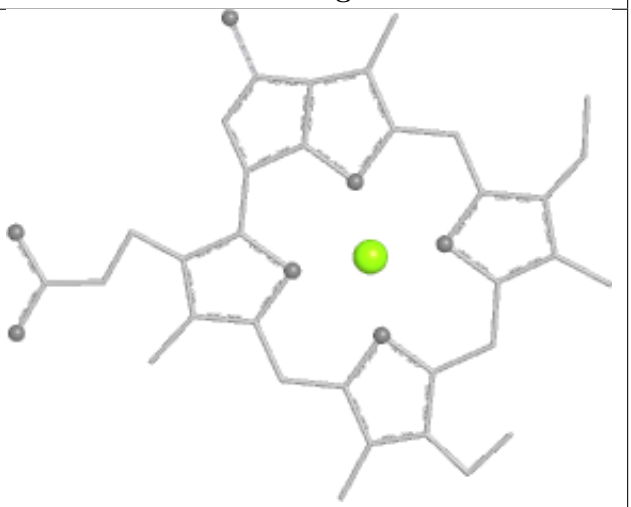
Bond lengths



Bond angles

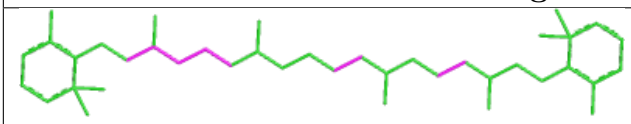


Torsions

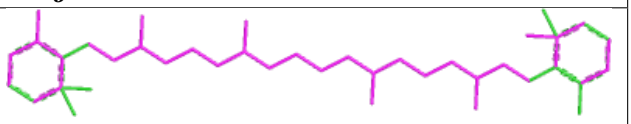


Rings

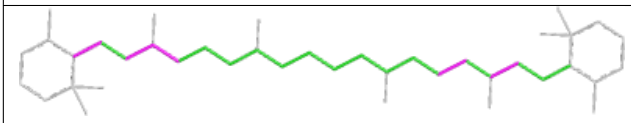
Ligand BCR j 103



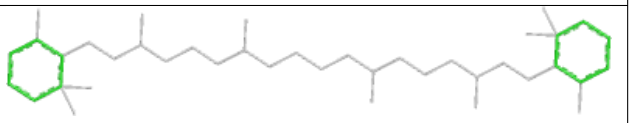
Bond lengths



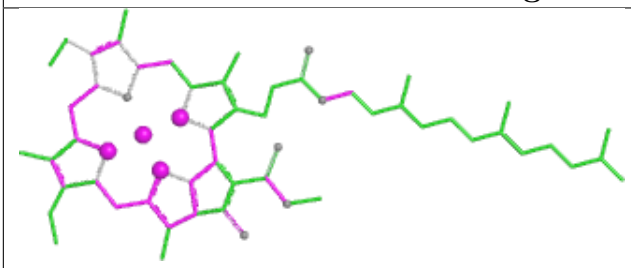
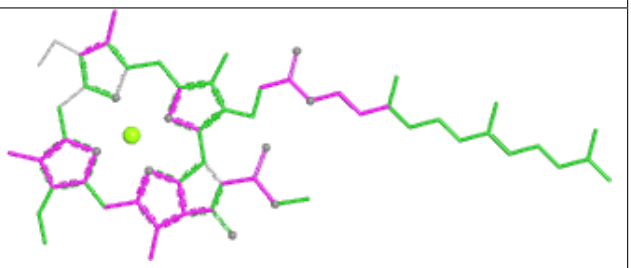
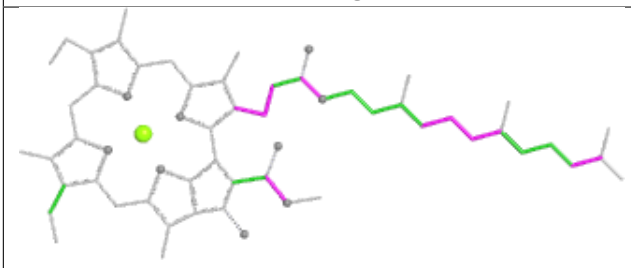
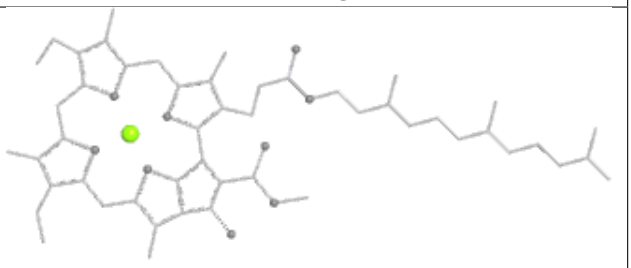
Bond angles

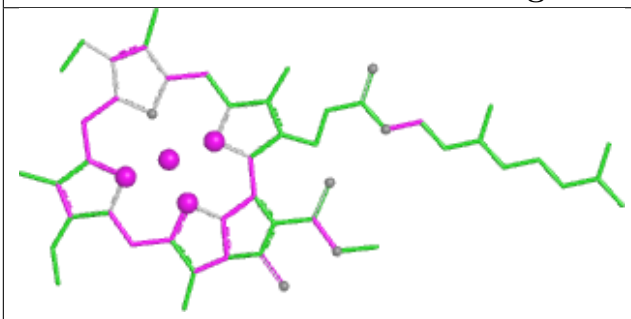
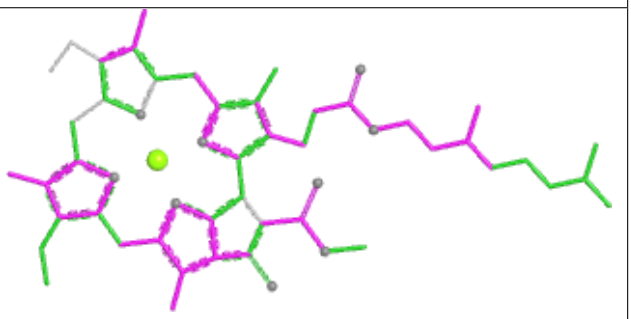
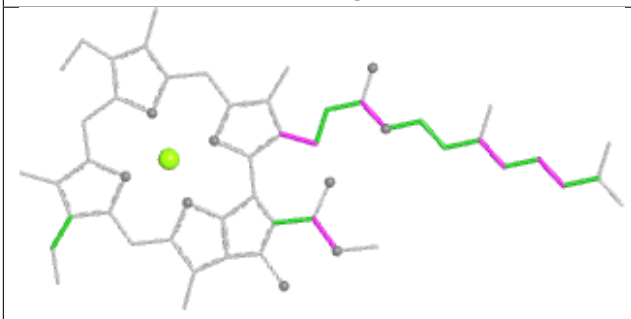
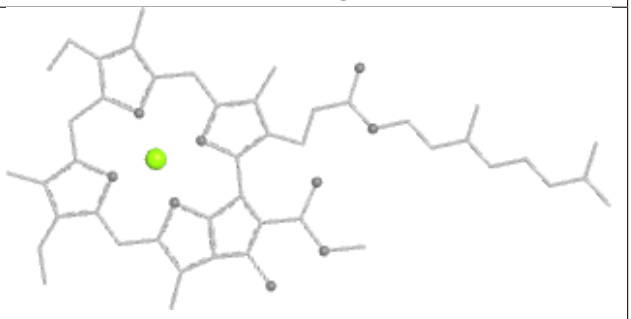


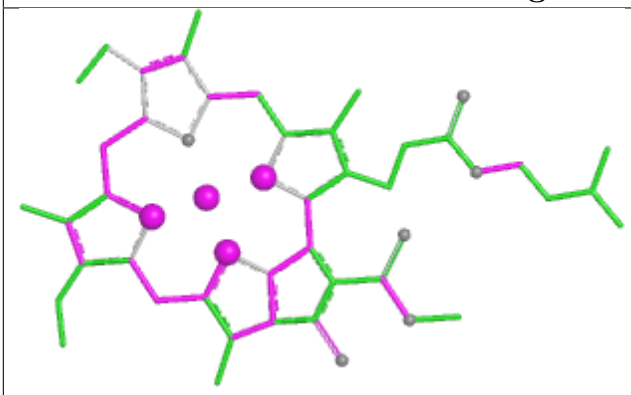
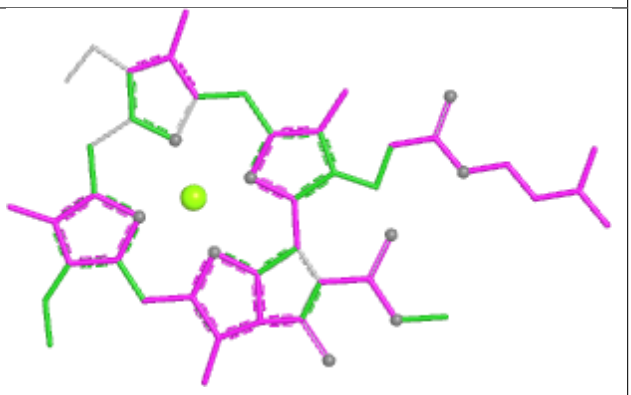
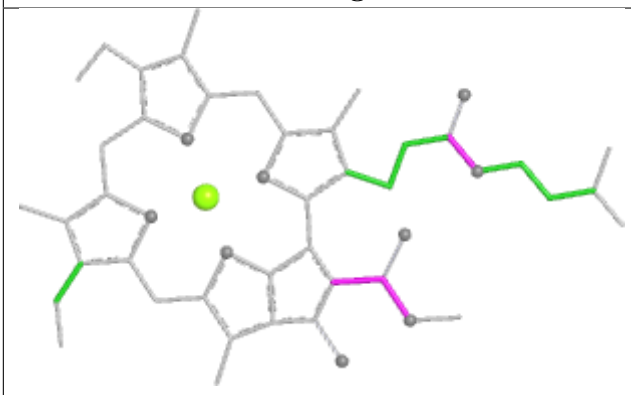
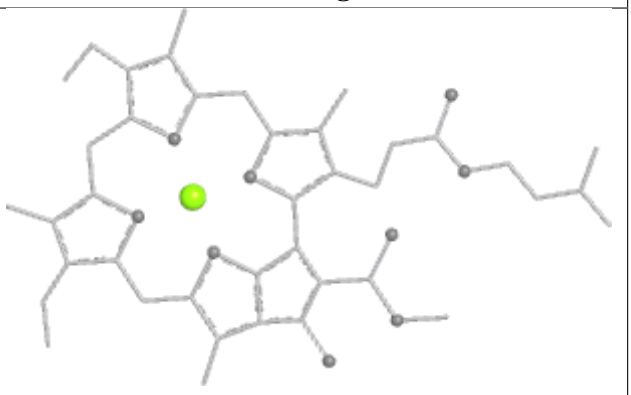
Torsions

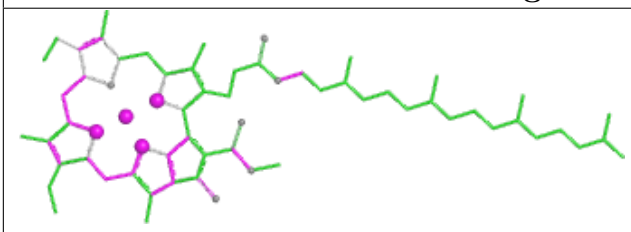
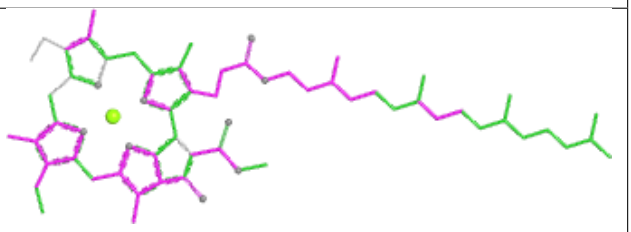
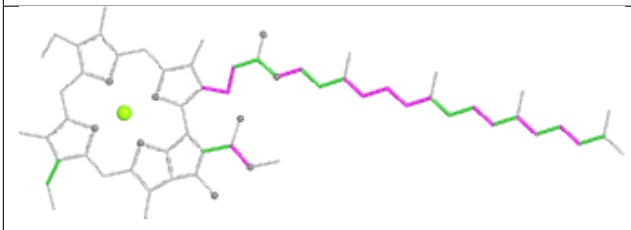
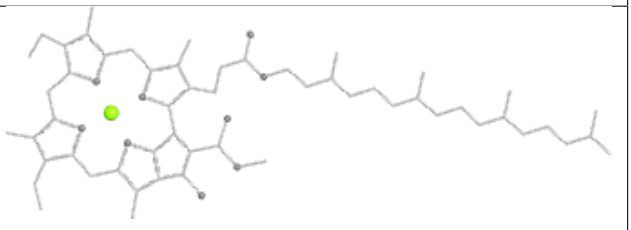


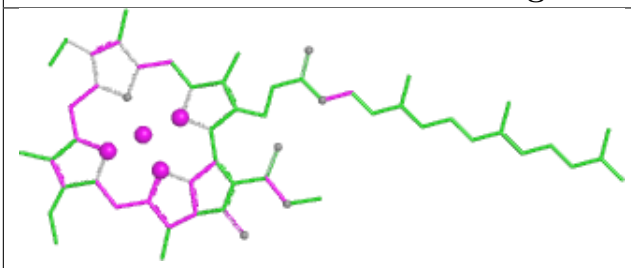
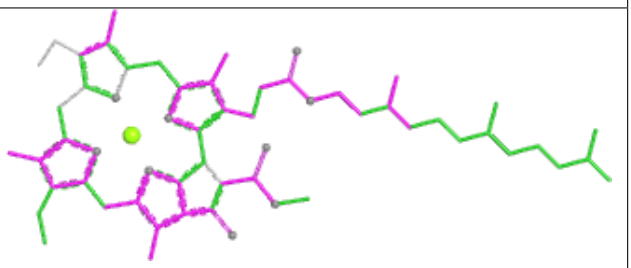
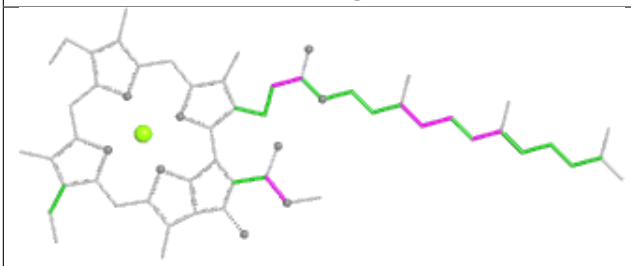
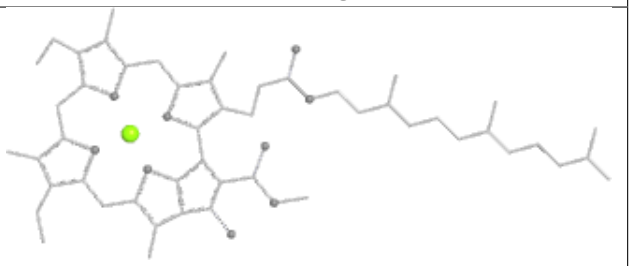
Rings

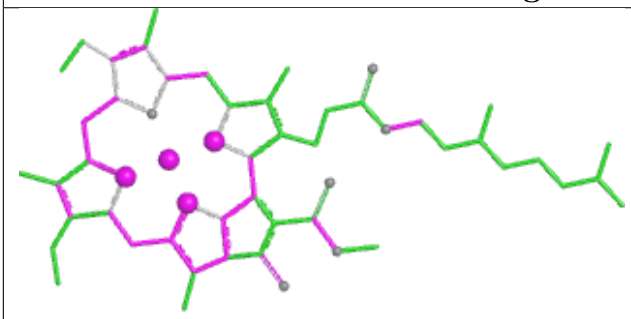
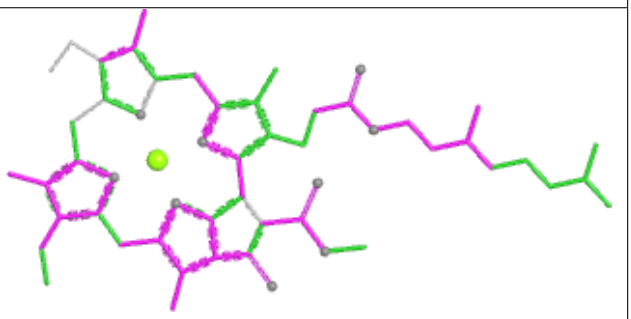
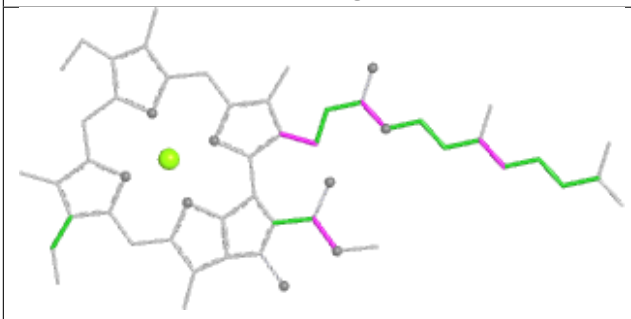
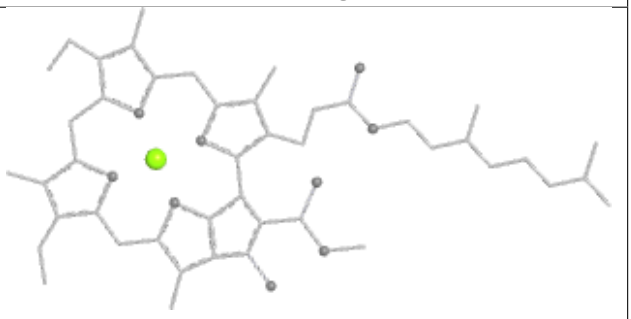
Ligand CLA U 204	
 Bond lengths	 Bond angles
 Torsions	 Rings

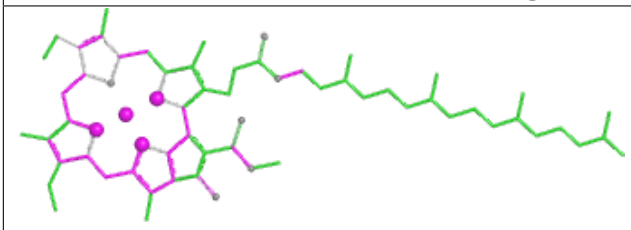
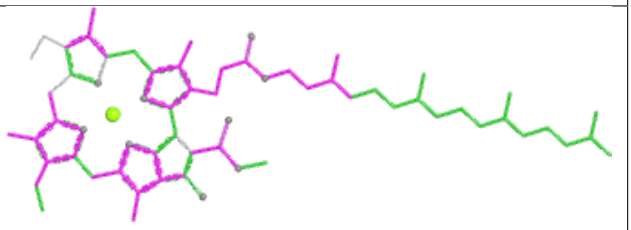
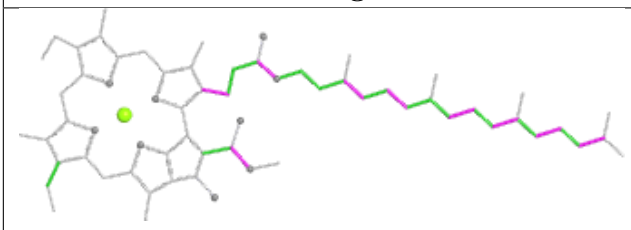
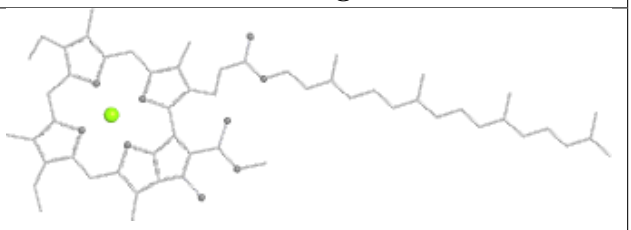
Ligand CLA b 813	
 Bond lengths	 Bond angles
 Torsions	 Rings

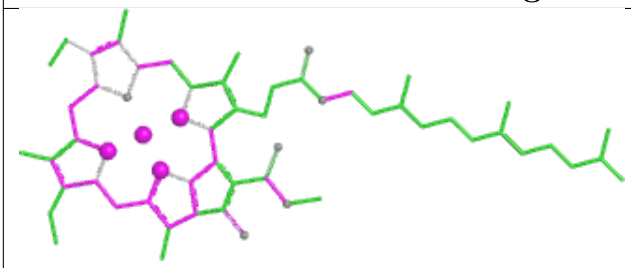
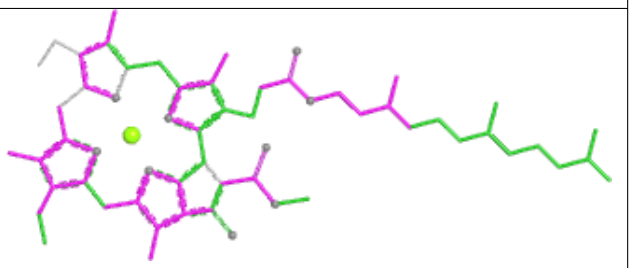
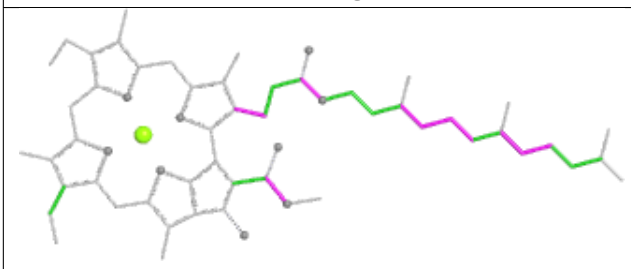
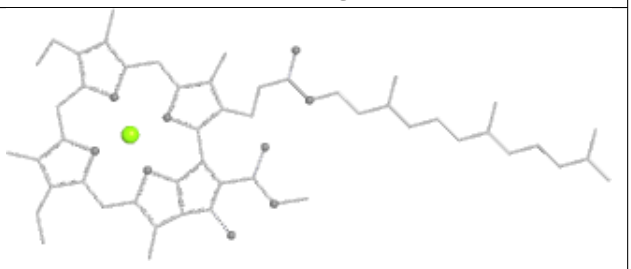
Ligand CLA a 837	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA A 803	
	
Bond lengths	Bond angles
	
Torsions	Rings

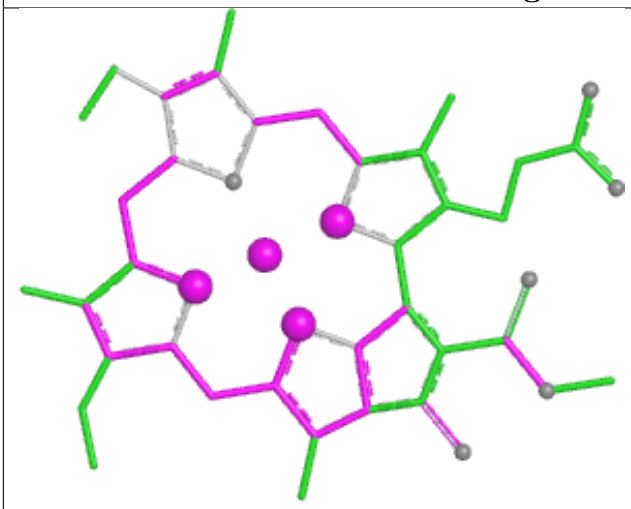
Ligand CLA b 837	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA G 805	
	
Bond lengths	Bond angles
	
Torsions	Rings

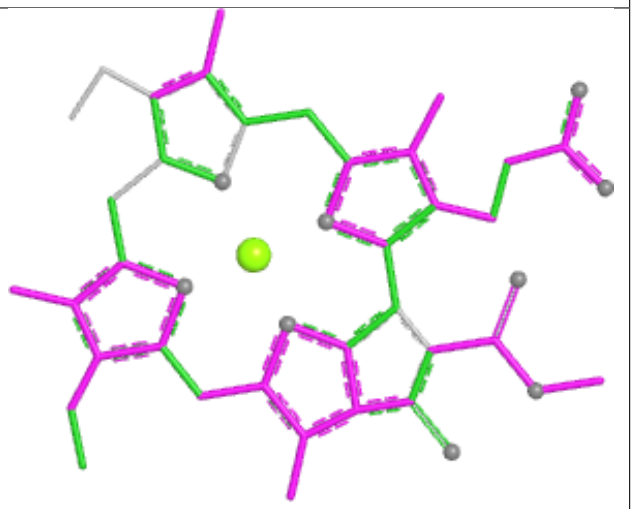
Ligand CLA A 820	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA H 817	
	
Bond lengths	Bond angles
	
Torsions	Rings

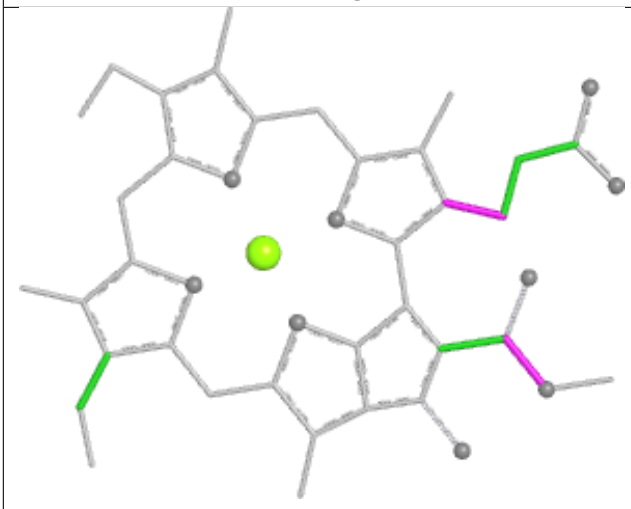
Ligand CLA H 810



Bond lengths



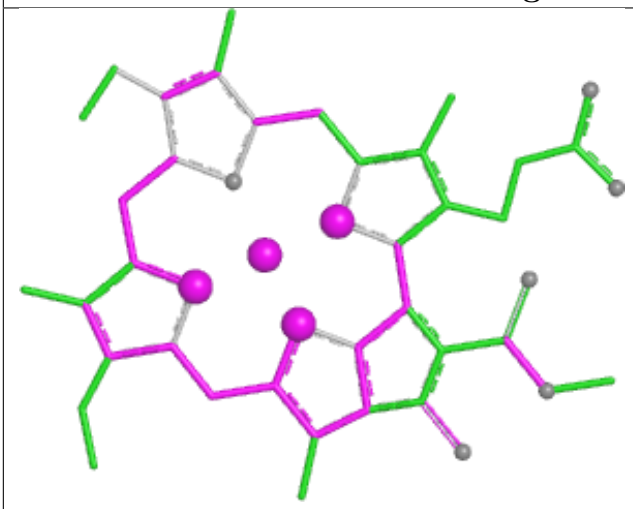
Bond angles



Torsions

Rings

Ligand CLA G 817



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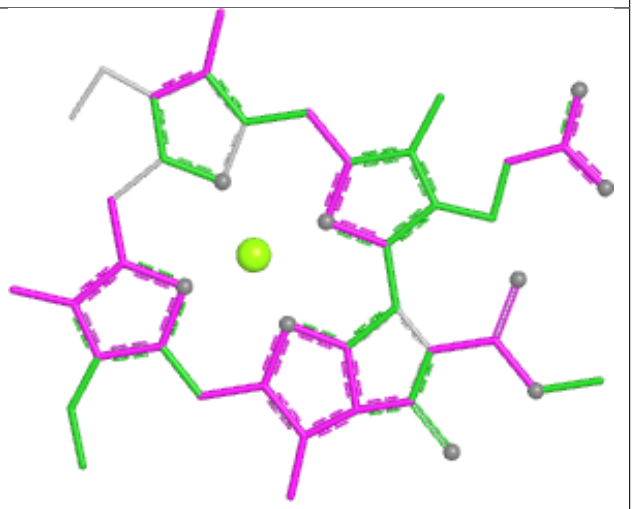
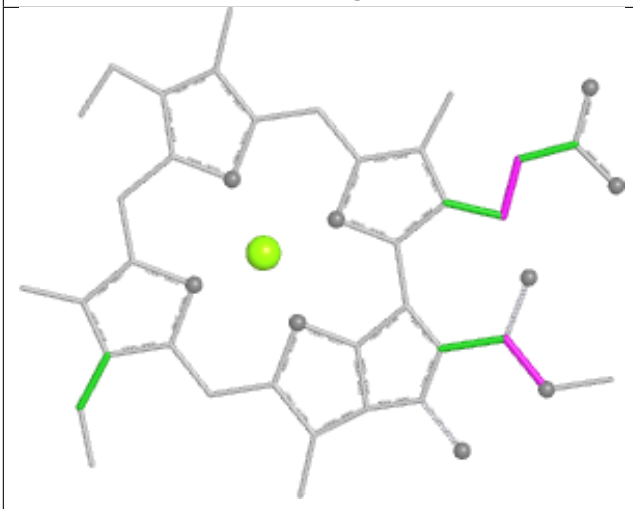


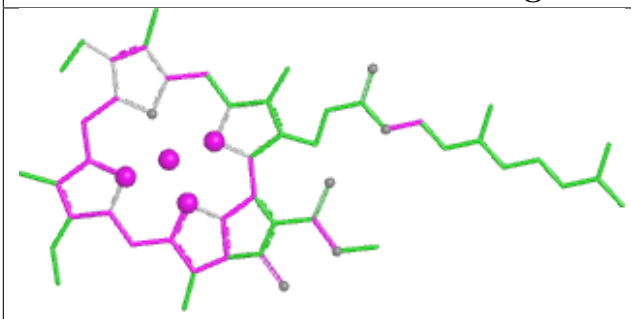
Bond angles



Torsions

Rings

Ligand CLA B 821



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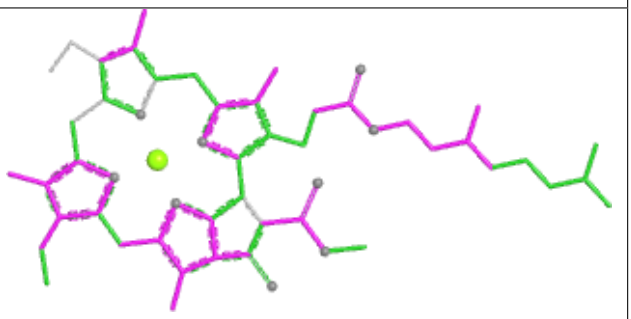
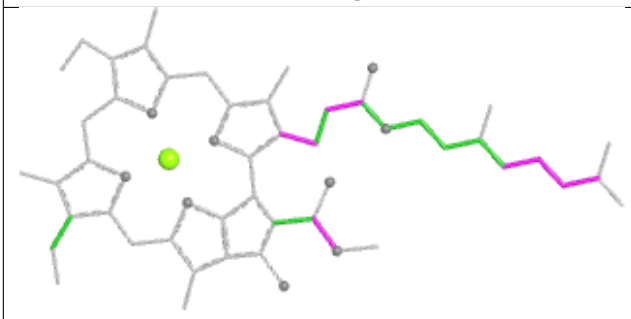
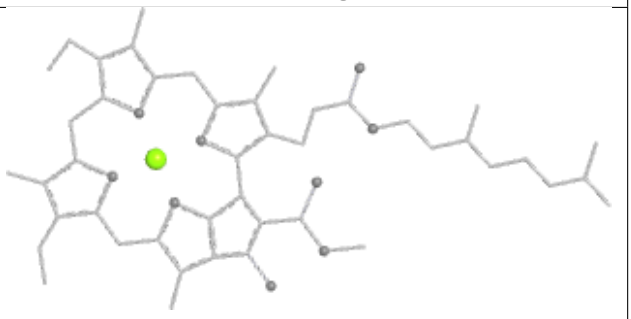


Bond angles

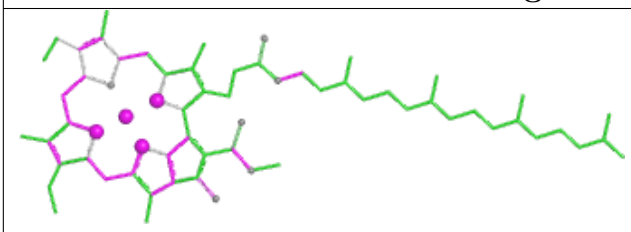


Torsions

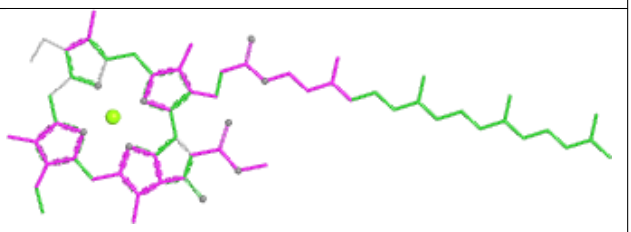


Rings

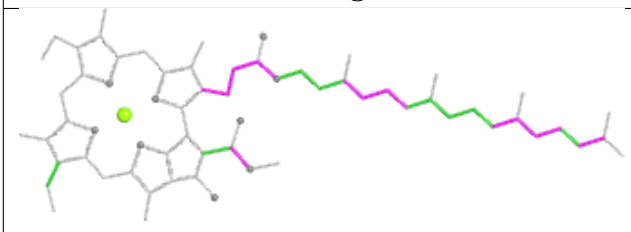
Ligand CLA B 826



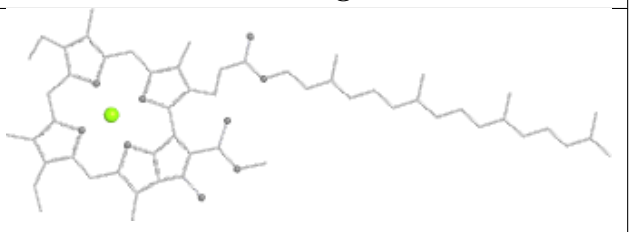
Bond lengths



Bond angles

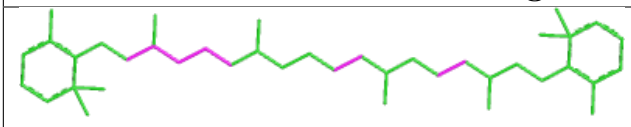


Torsions

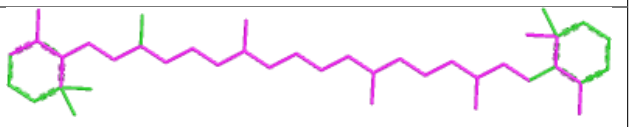


Rings

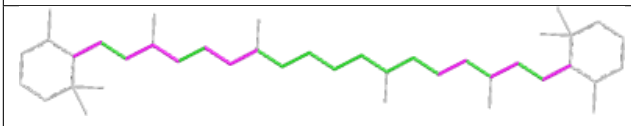
Ligand BCR J 102



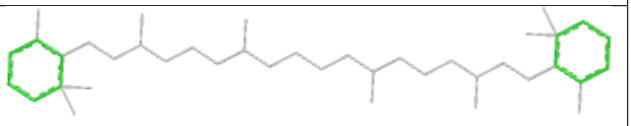
Bond lengths



Bond angles

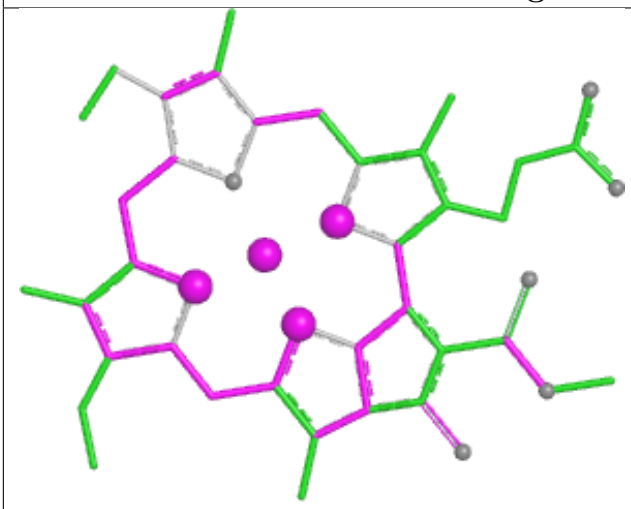


Torsions

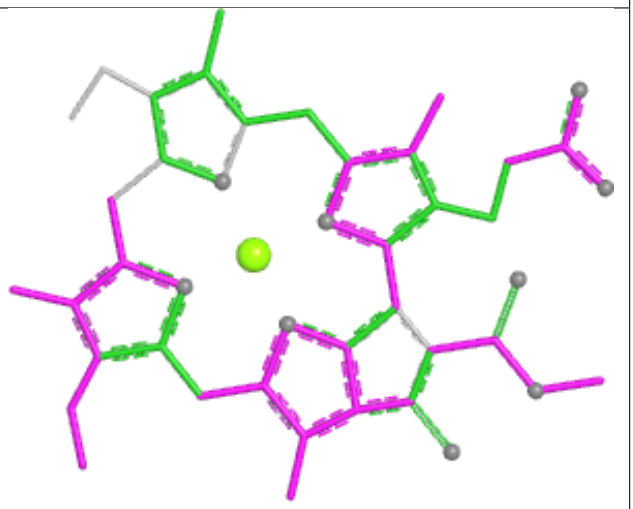


Rings

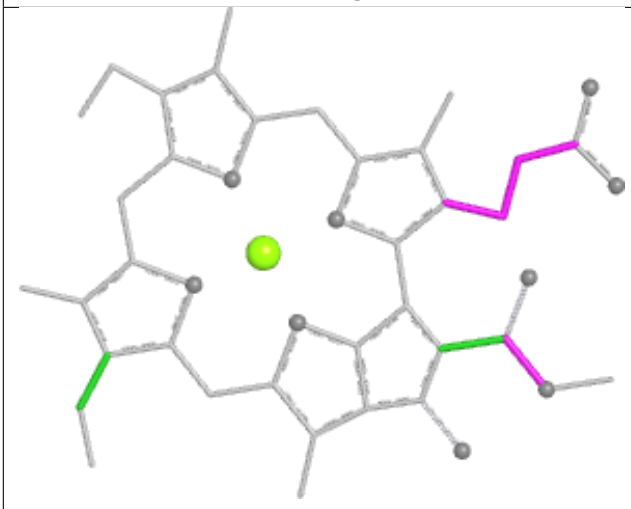
Ligand CLA b 834



Bond lengths



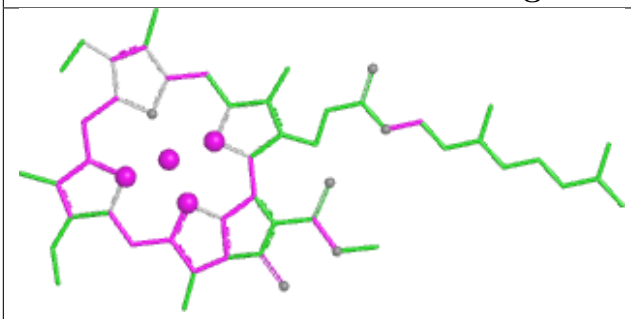
Bond angles



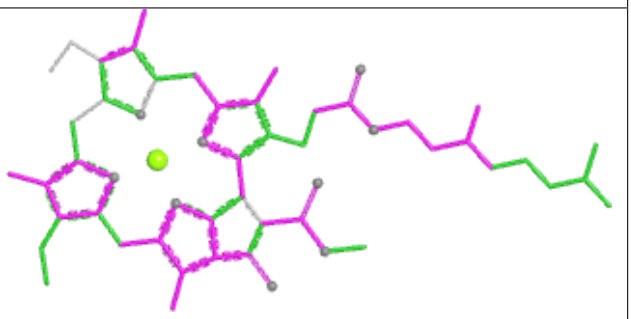
Torsions

Rings

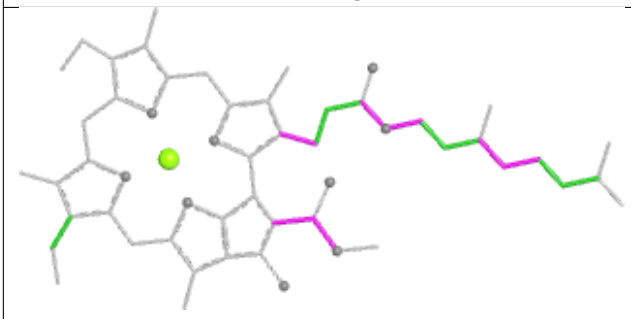
Ligand CLA A 805



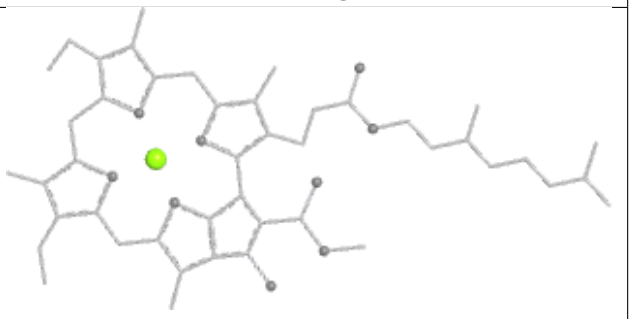
Bond lengths



Bond angles

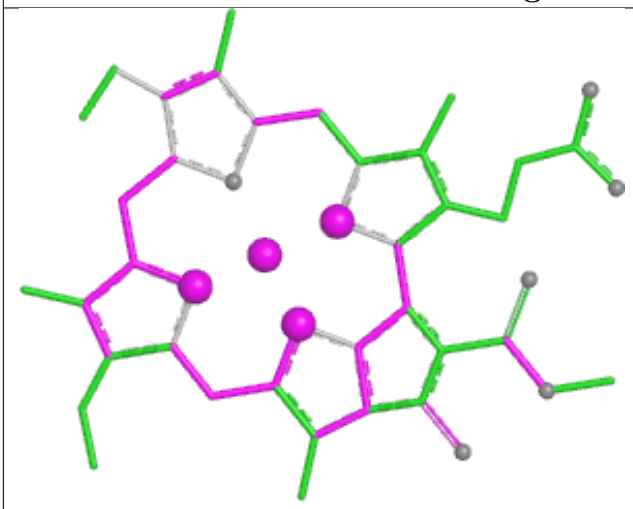


Torsions



Rings

Ligand CLA A 823



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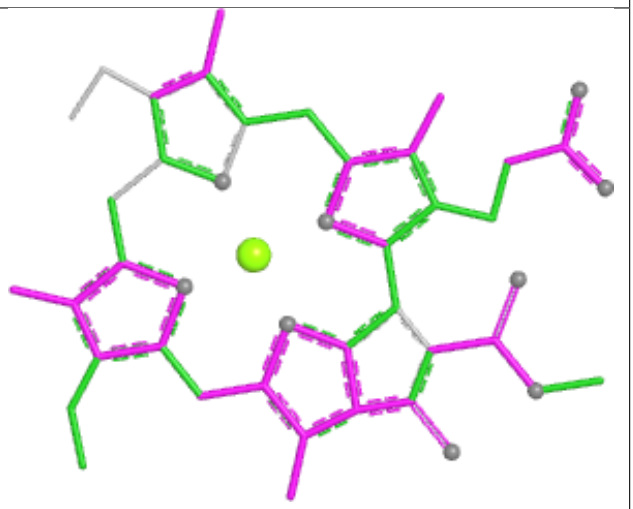
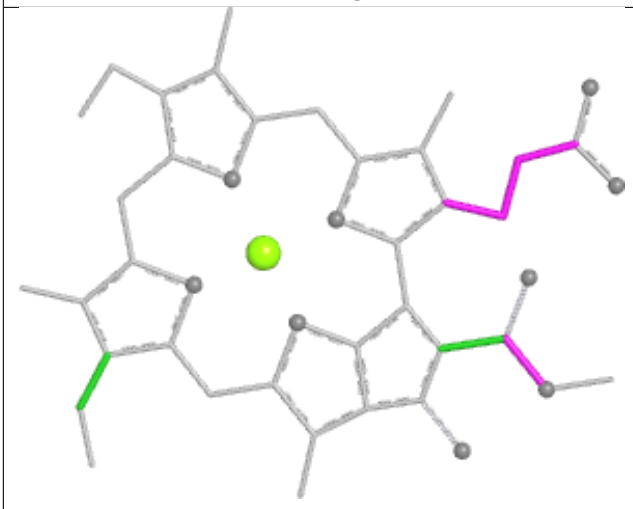


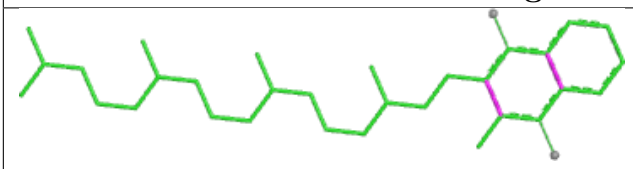
Bond angles



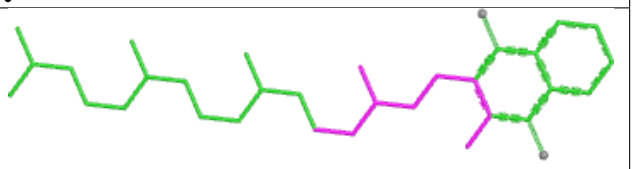
Torsions

Rings

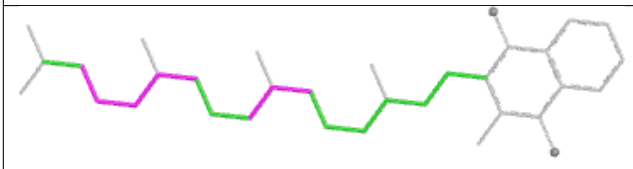
Ligand PQN b 841



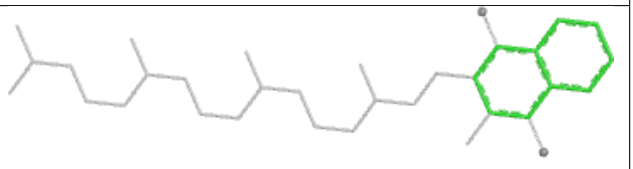
Bond lengths



Bond angles

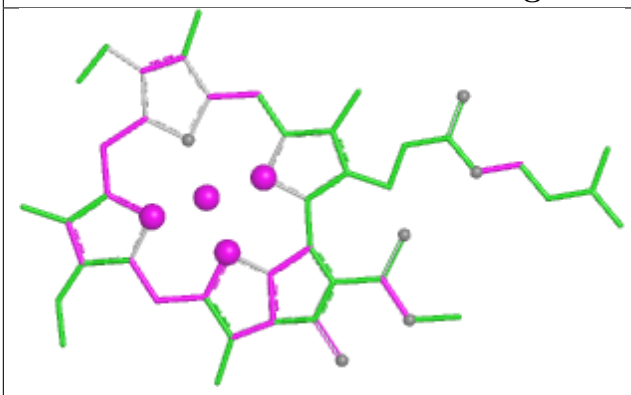


Torsions

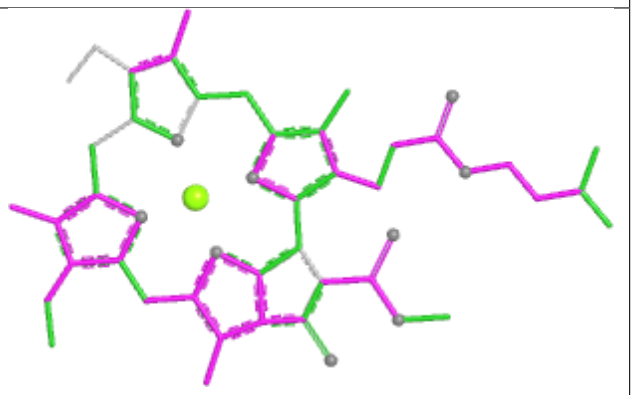


Rings

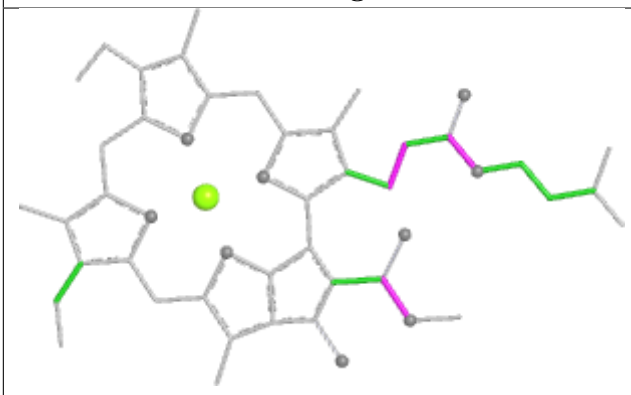
Ligand CLA A 832



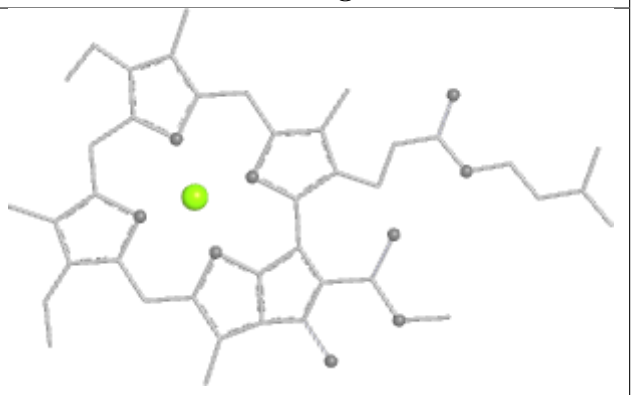
Bond lengths



Bond angles

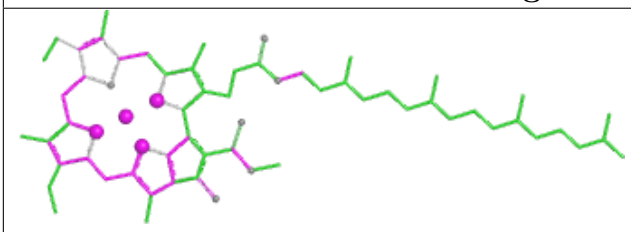


Torsions

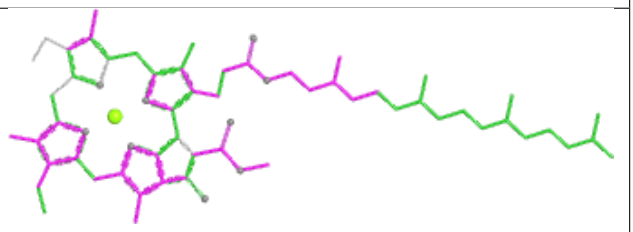


Rings

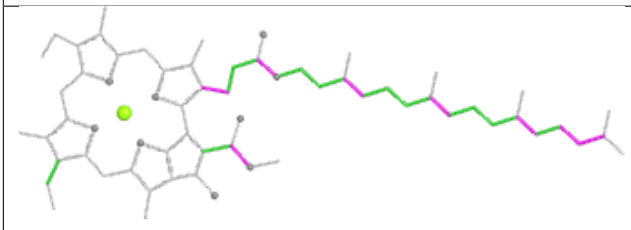
Ligand CLA G 822



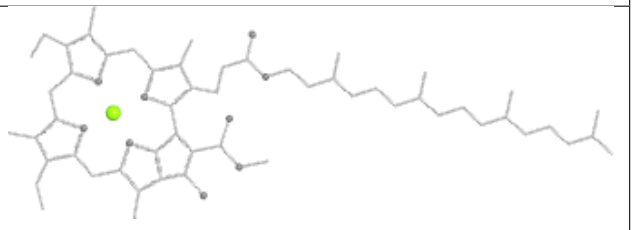
Bond lengths



Bond angles

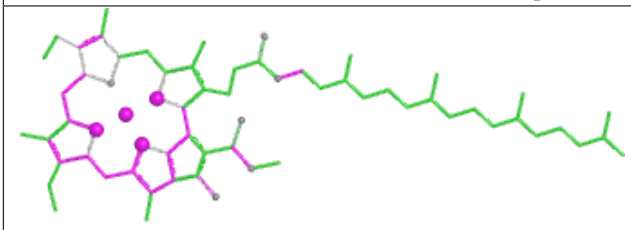


Torsions

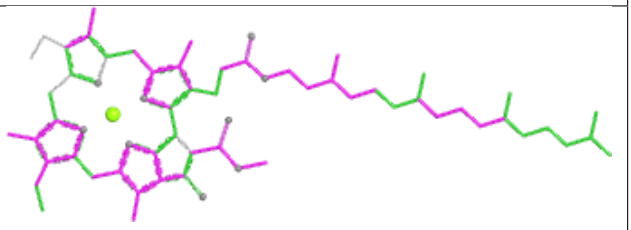


Rings

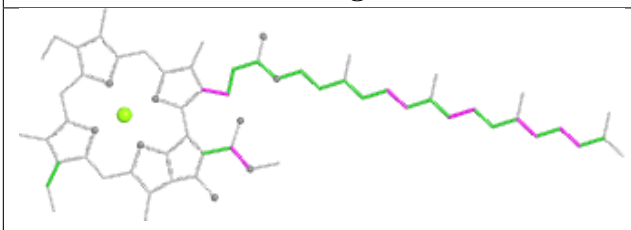
Ligand CLA a 840



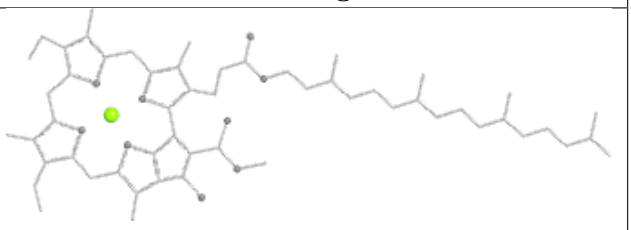
Bond lengths



Bond angles

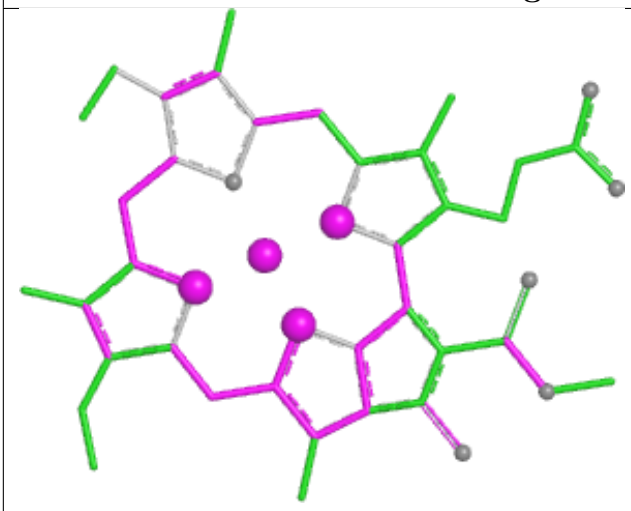


Torsions

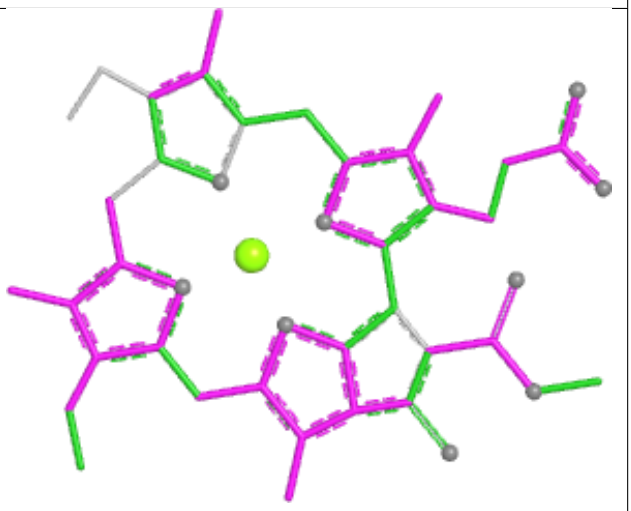


Rings

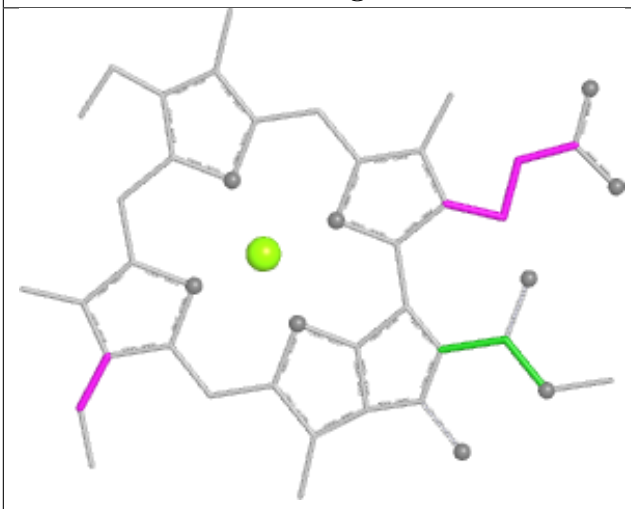
Ligand CLA A 845



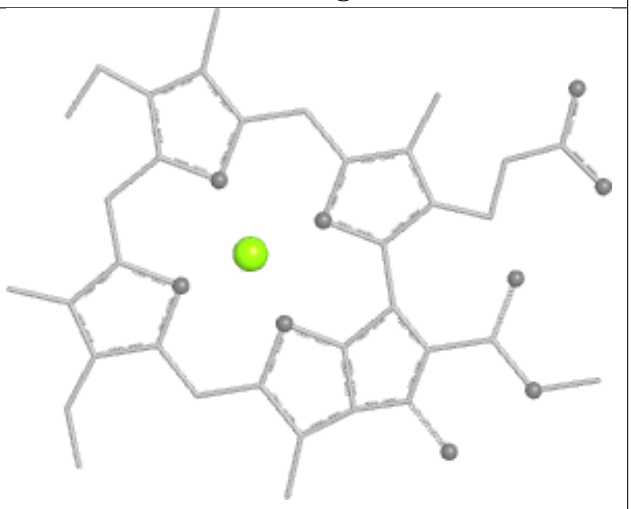
Bond lengths



Bond angles

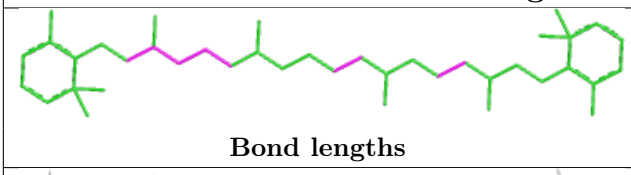


Torsions

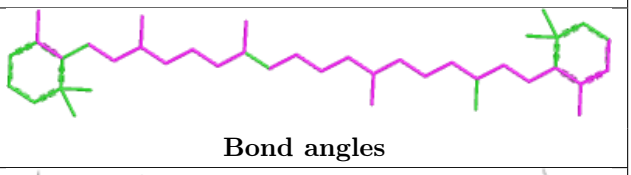


Rings

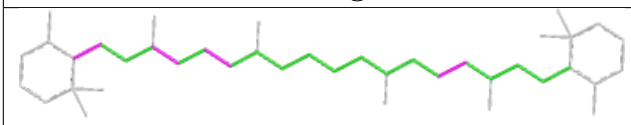
Ligand BCR a 851



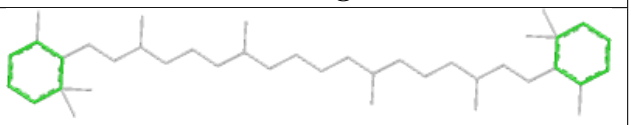
Bond lengths



Bond angles

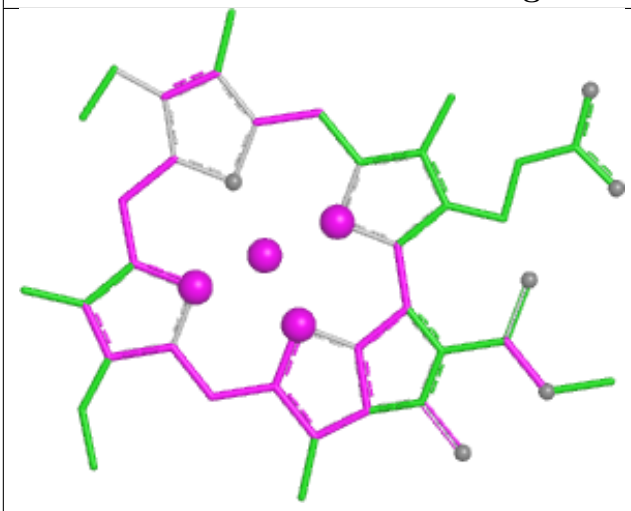


Torsions

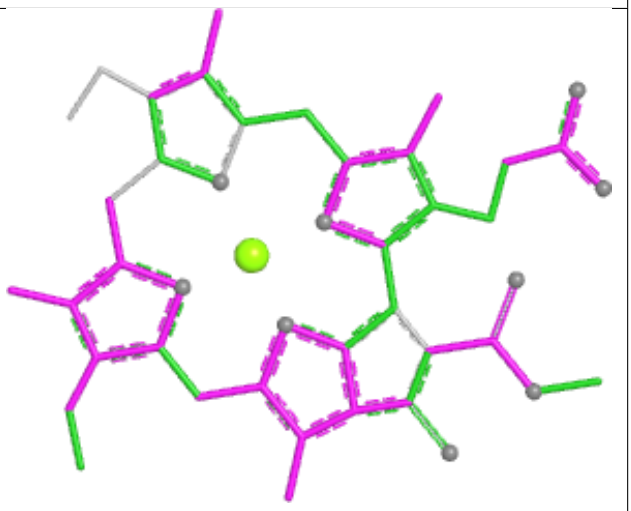


Rings

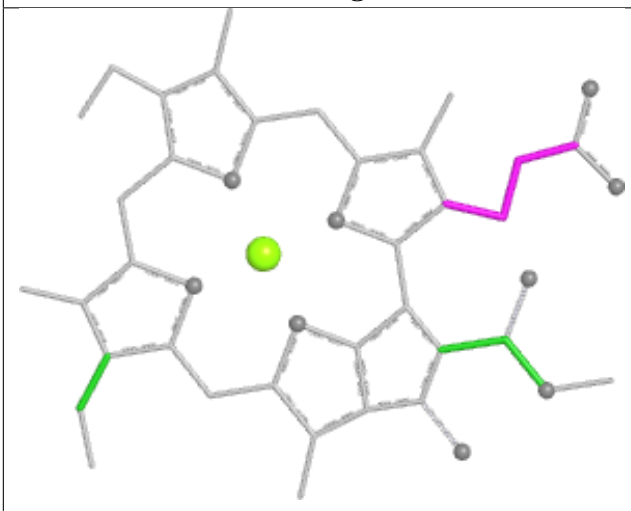
Ligand CLA G 837



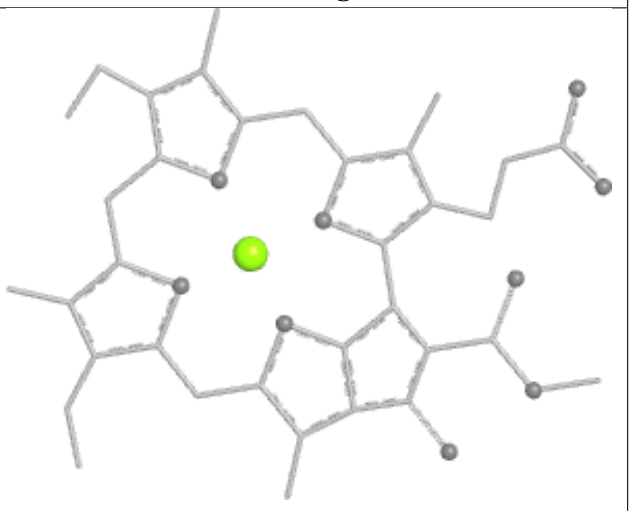
Bond lengths



Bond angles

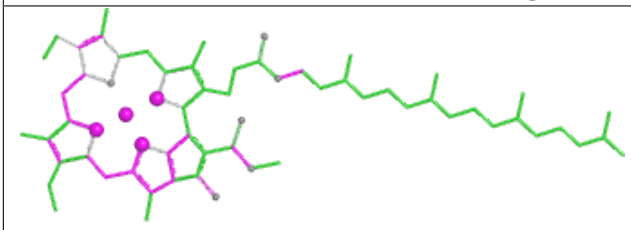


Torsions

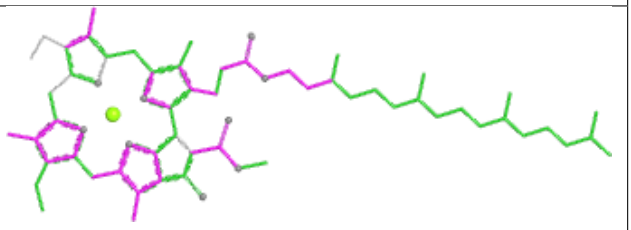


Rings

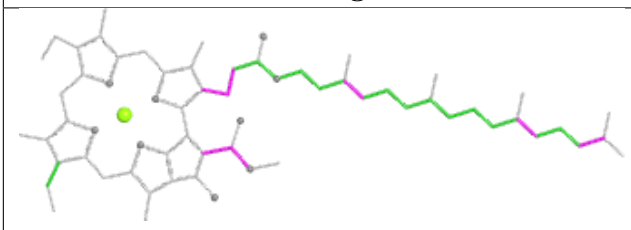
Ligand CLA A 835



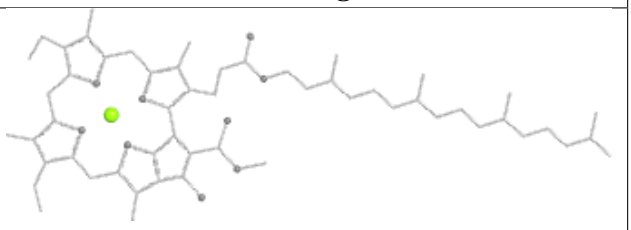
Bond lengths



Bond angles

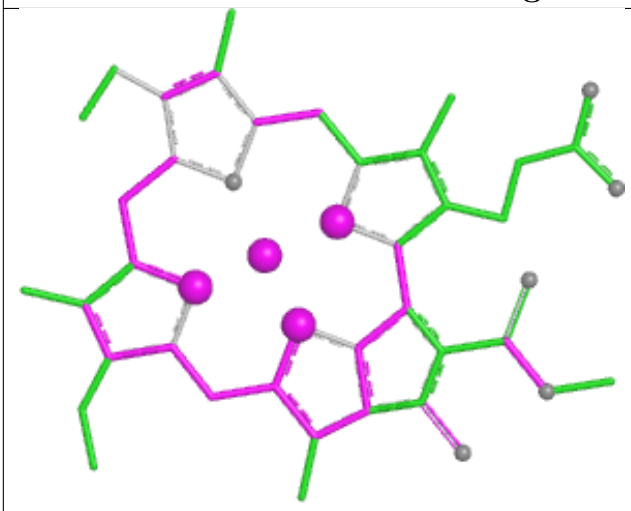


Torsions

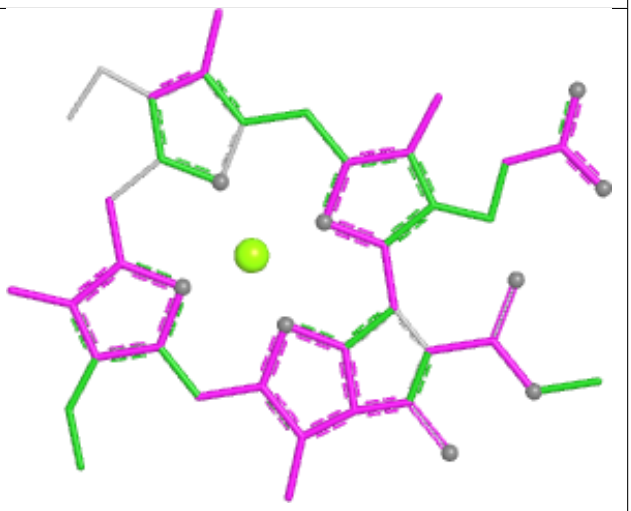


Rings

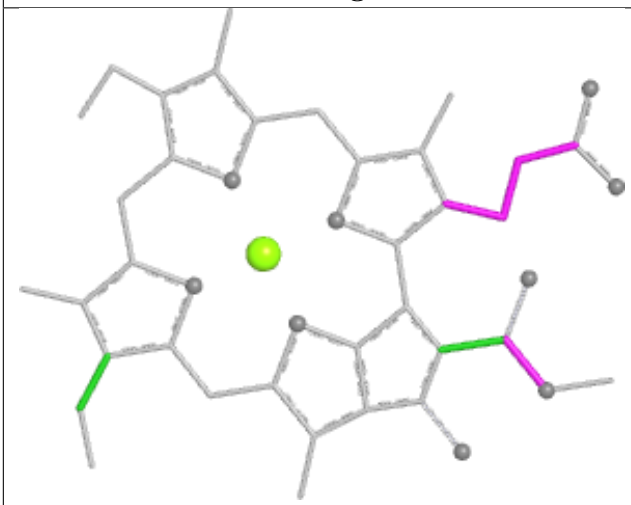
Ligand CLA H 830



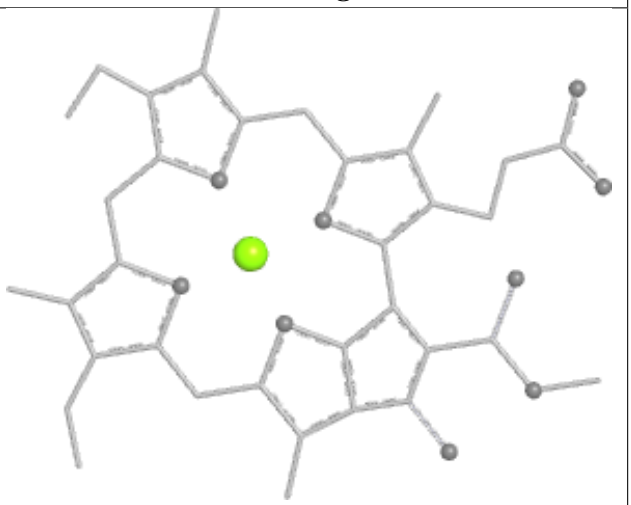
Bond lengths



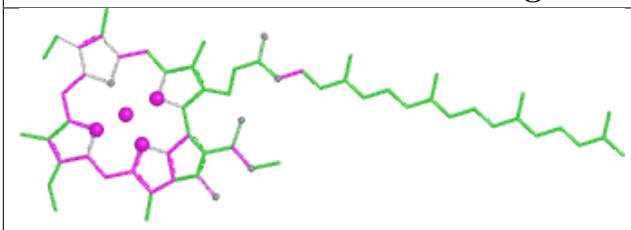
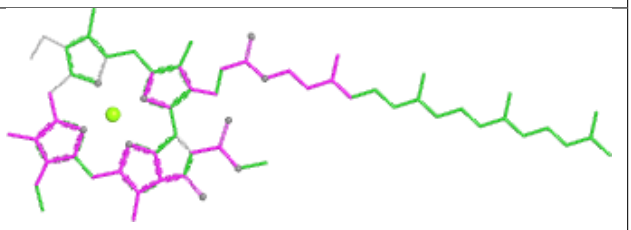
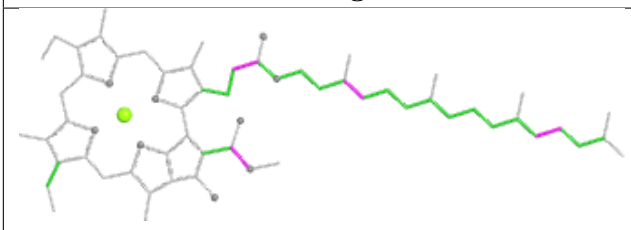
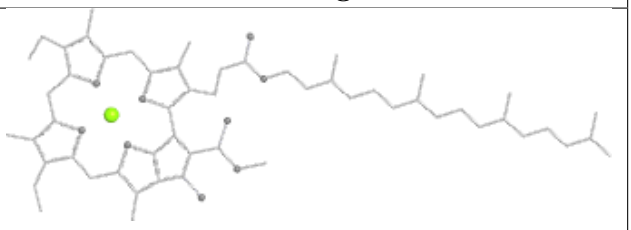
Bond angles

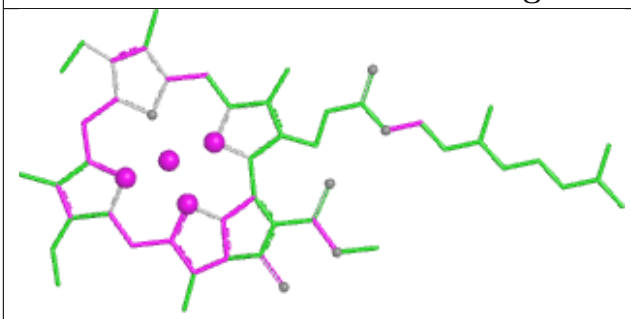
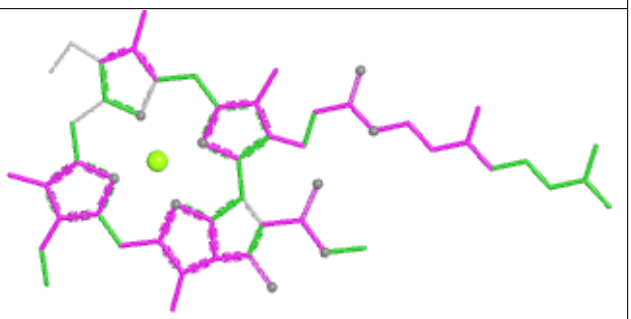
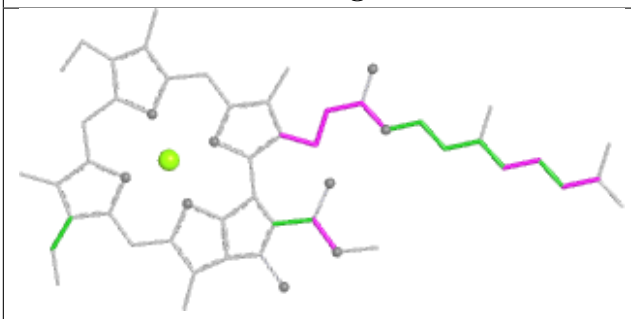
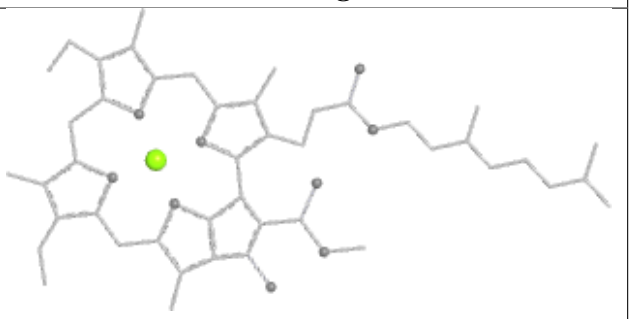


Torsions

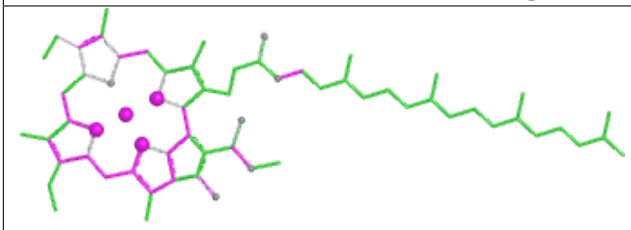


Rings

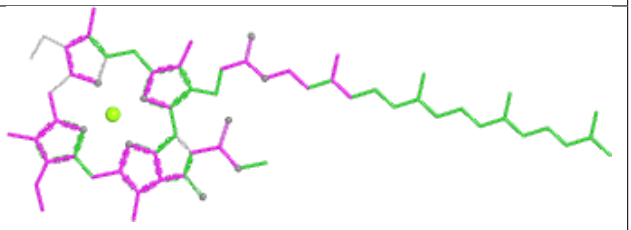
Ligand CLA B 807	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA H 816	
	
Bond lengths	Bond angles
	
Torsions	Rings

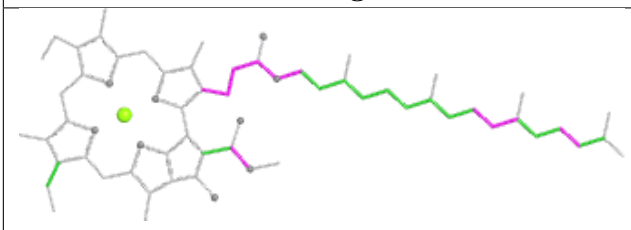
Ligand CLA G 812



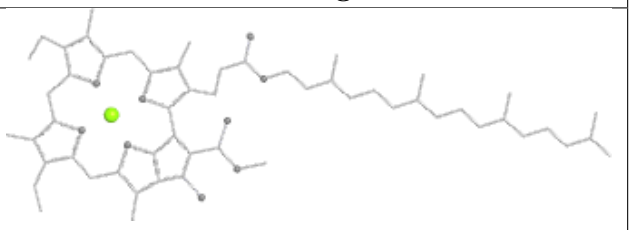
Bond lengths



Bond angles

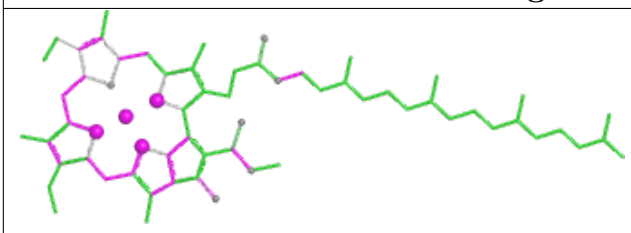


Torsions



Rings

Ligand CLA b 808



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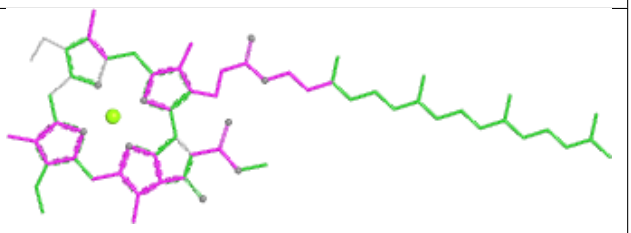
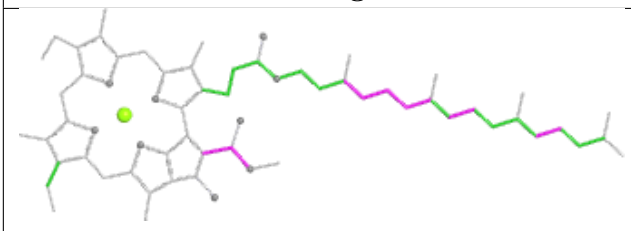


Bond angles



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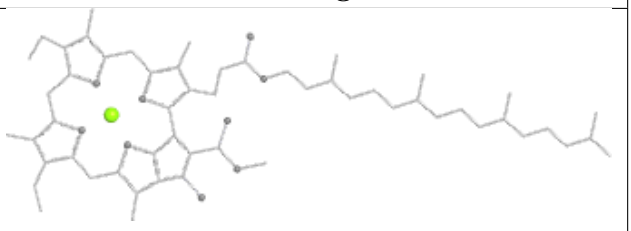
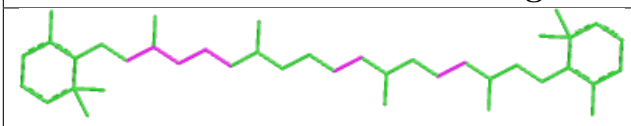
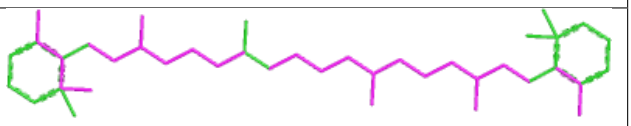


Rings

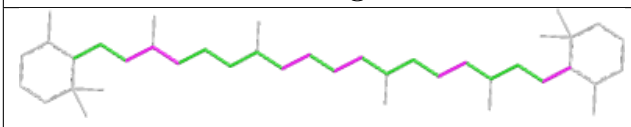
Ligand BCR b 849



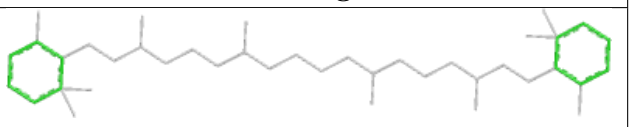
Bond lengths



Bond angles

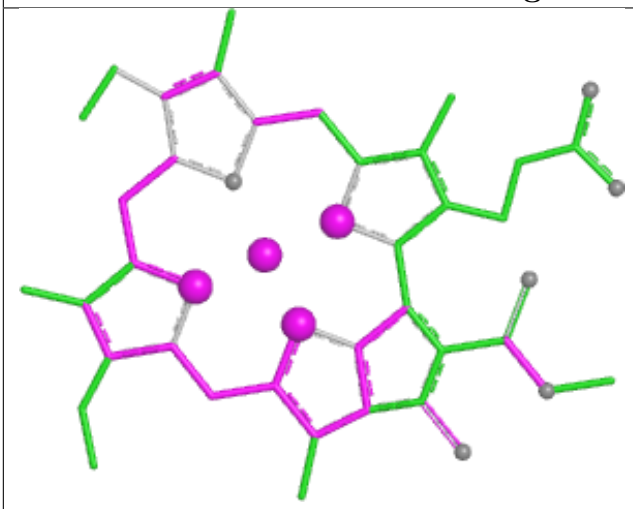


Torsions

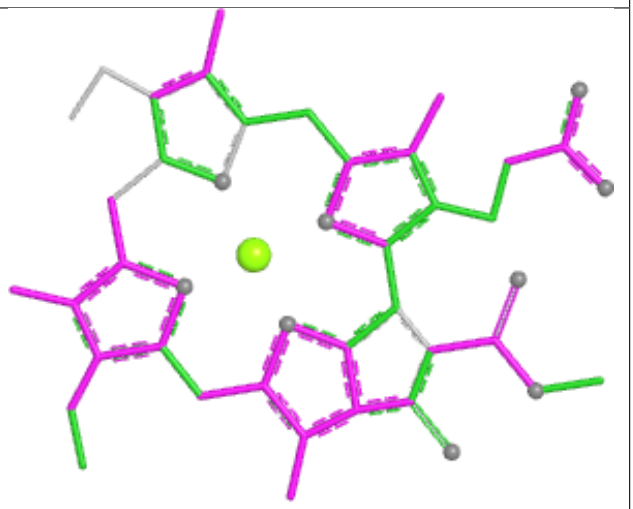


Rings

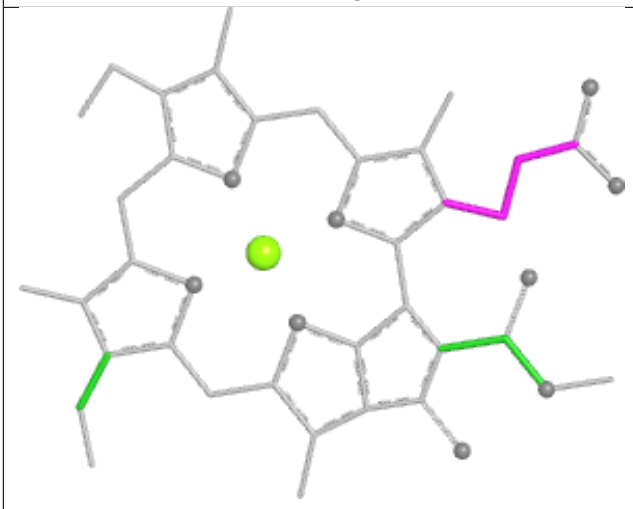
Ligand CLA A 837



Bond lengths



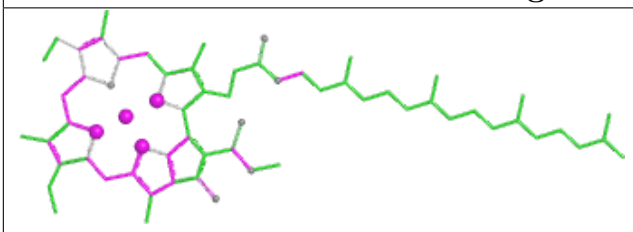
Bond angles



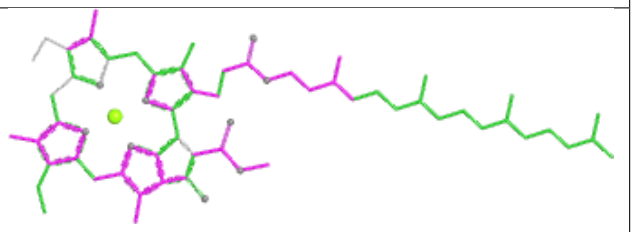
Torsions

Rings

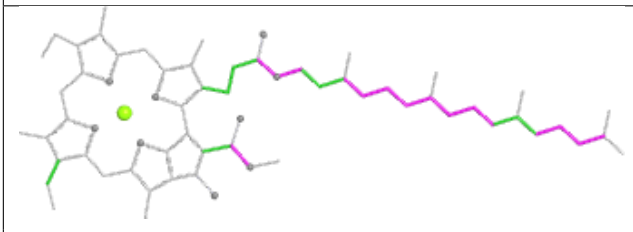
Ligand CLA b 807



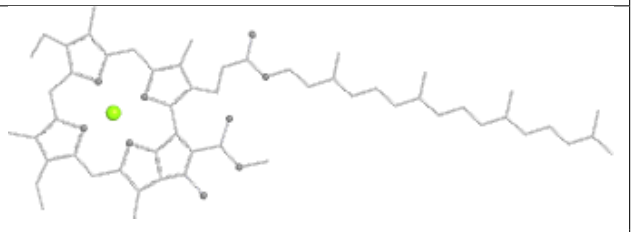
Bond lengths



Bond angles

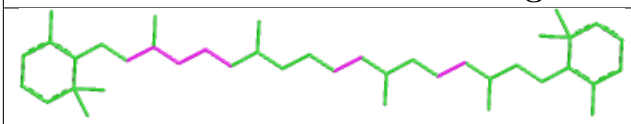


Torsions

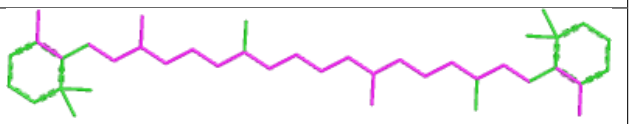


Rings

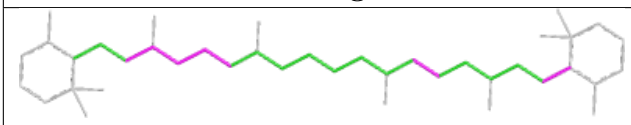
Ligand BCR b 847



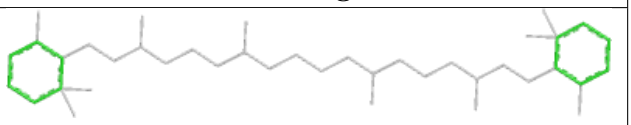
Bond lengths



Bond angles

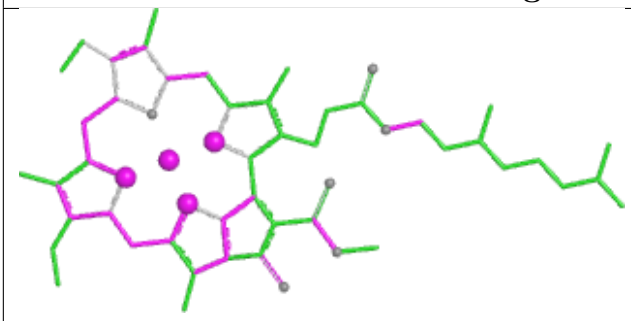


Torsions

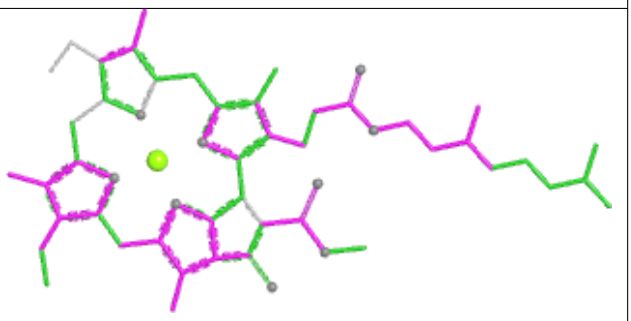


Rings

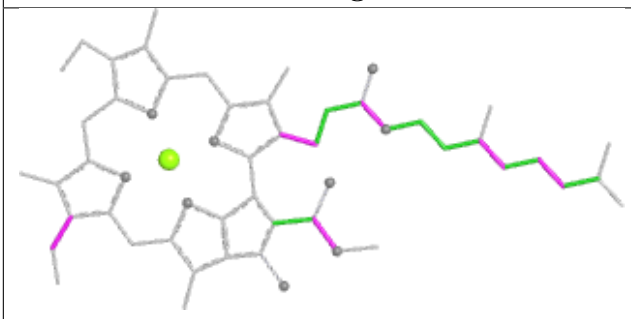
Ligand CLA H 813



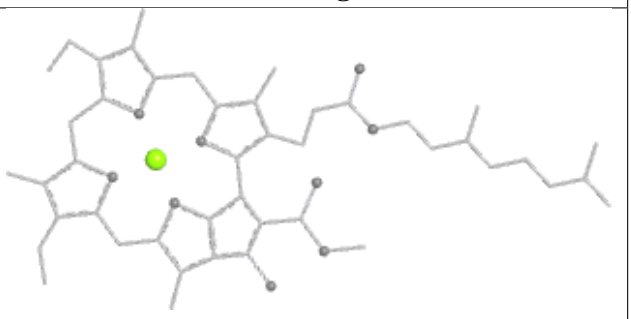
Bond lengths



Bond angles

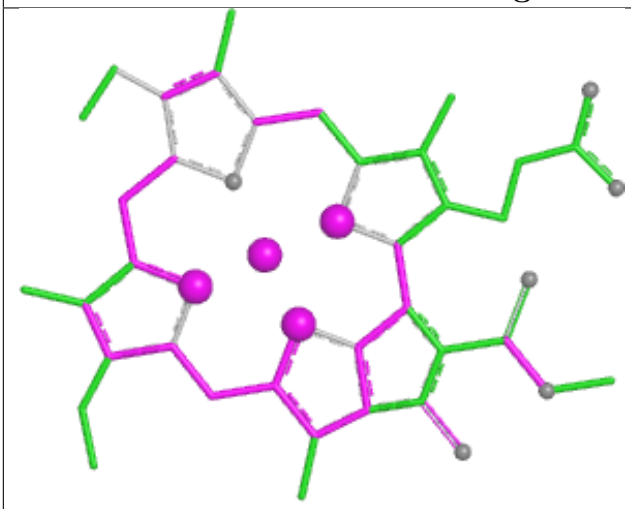


Torsions

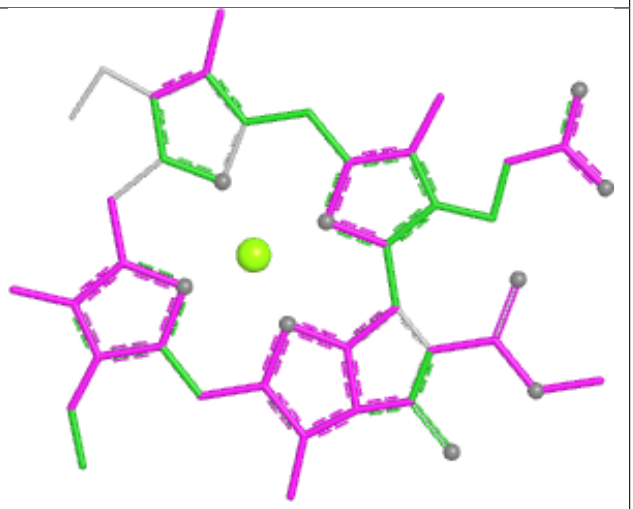


Rings

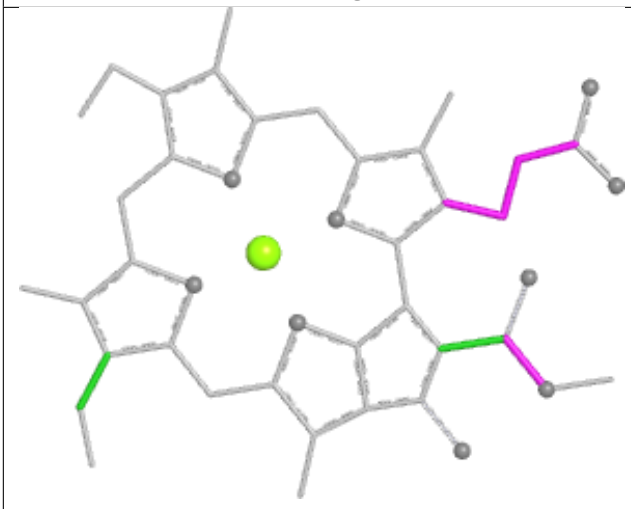
Ligand CLA m 1601



Bond lengths



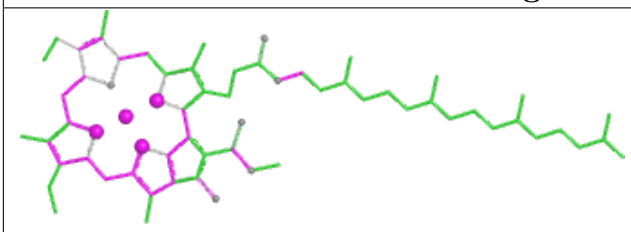
Bond angles



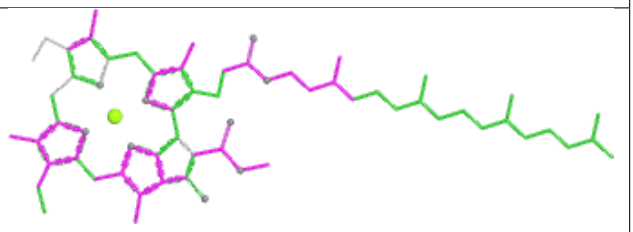
Torsions

Rings

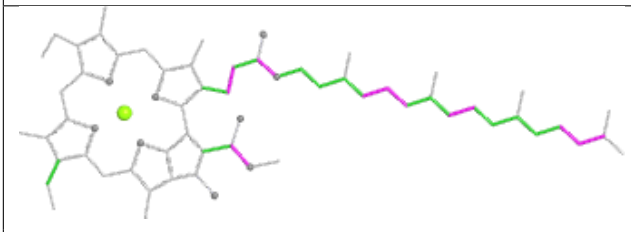
Ligand CLA G 841



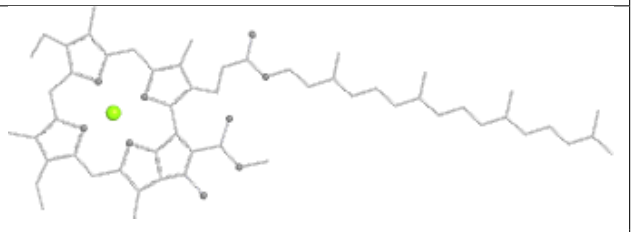
Bond lengths



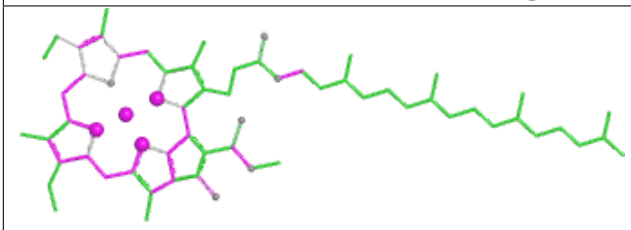
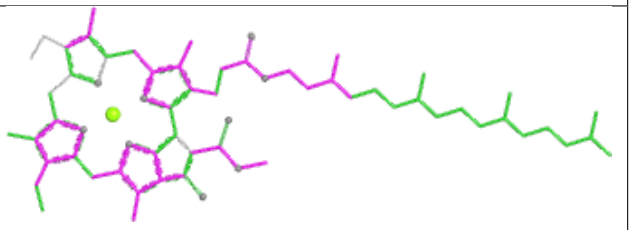
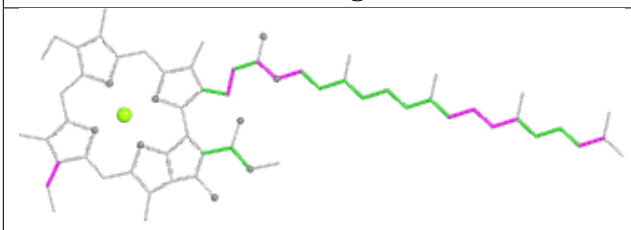
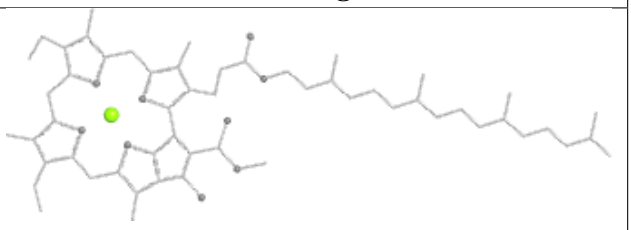
Bond angles

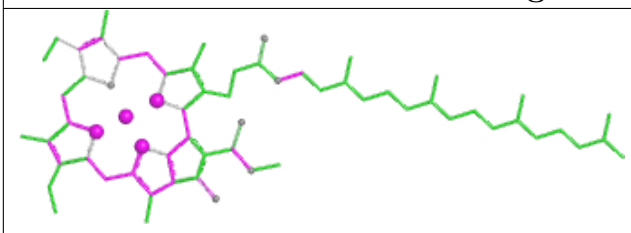
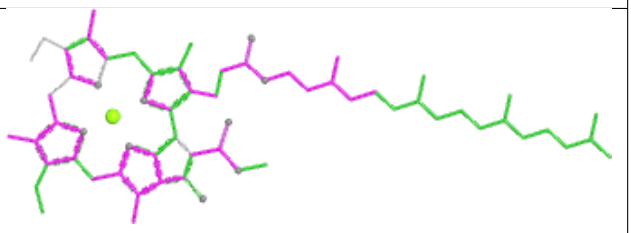
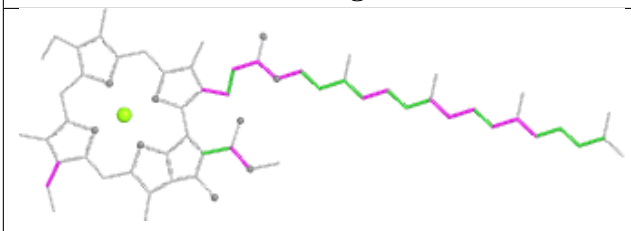
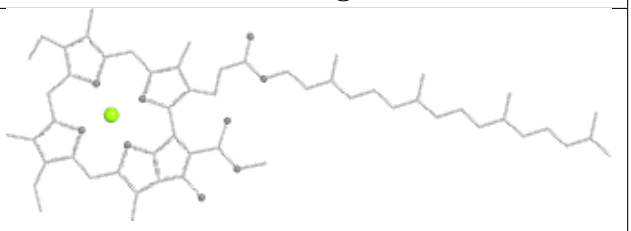


Torsions

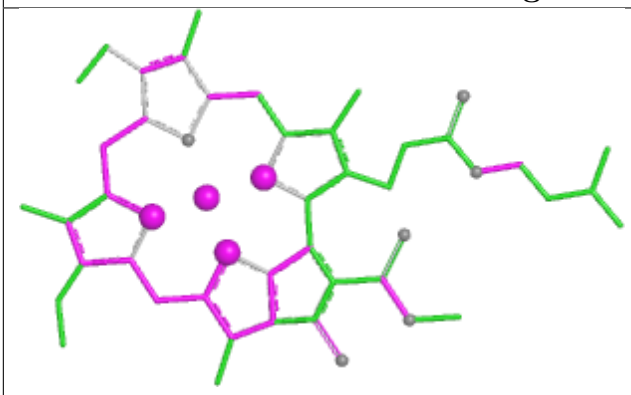


Rings

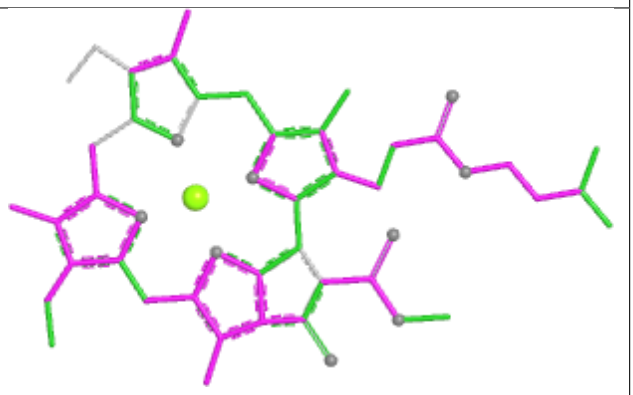
Ligand CLA H 803	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA b 840	
 Bond lengths	 Bond angles
 Torsions	 Rings

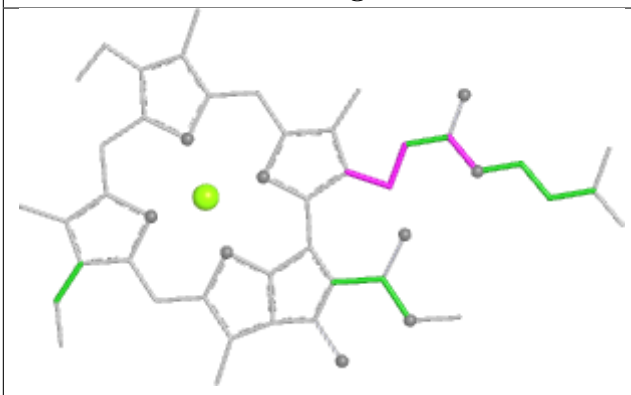
Ligand CLA G 813



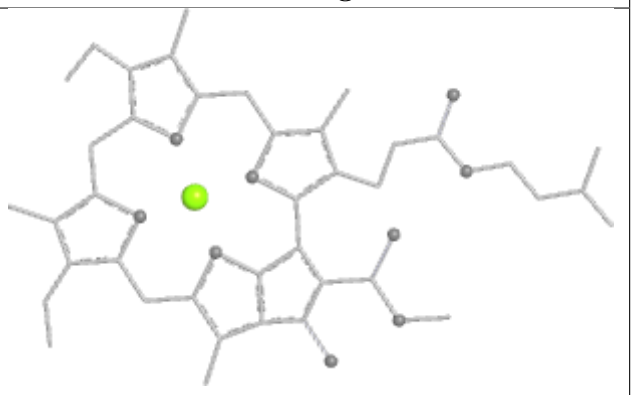
Bond lengths



Bond angles

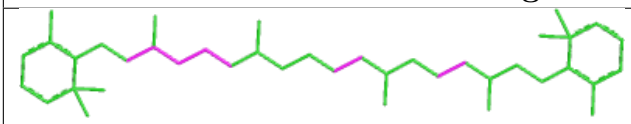


Torsions

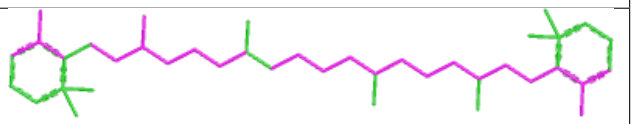


Rings

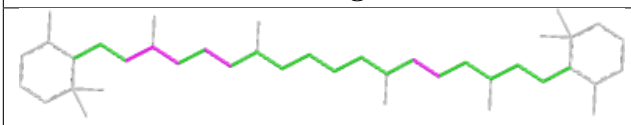
Ligand BCR R 101



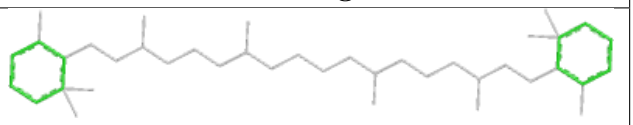
Bond lengths



Bond angles

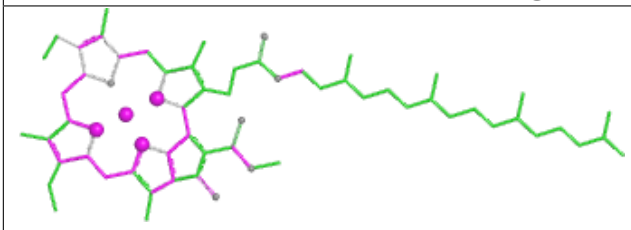


Torsions



Rings

Ligand CLA a 829



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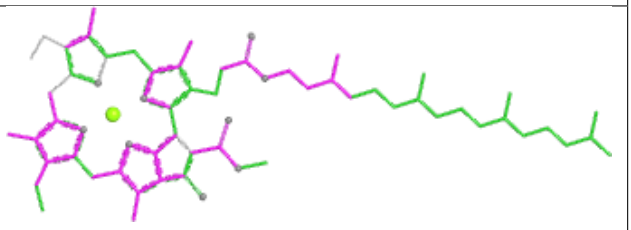
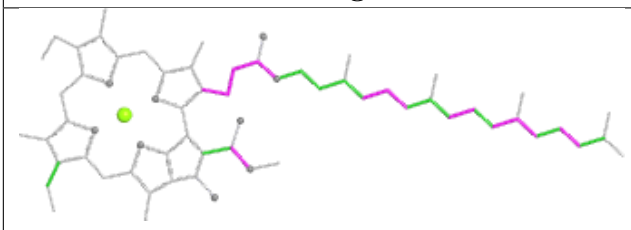


Bond angles



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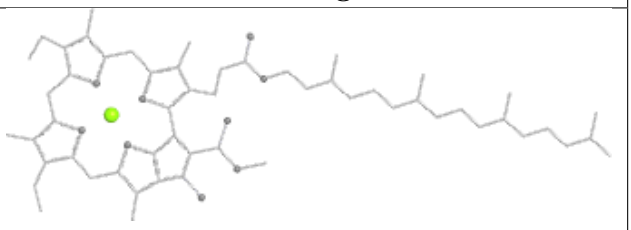
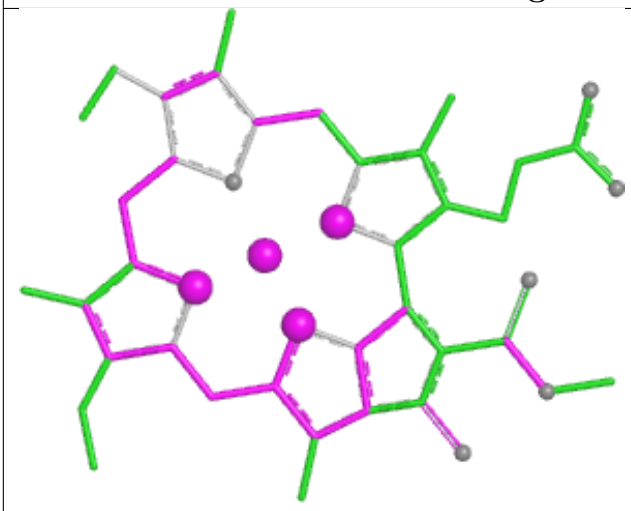


Rings

Ligand CLA a 839



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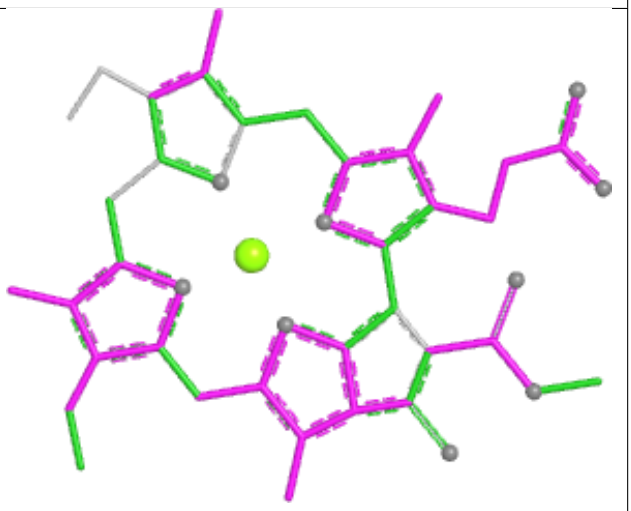
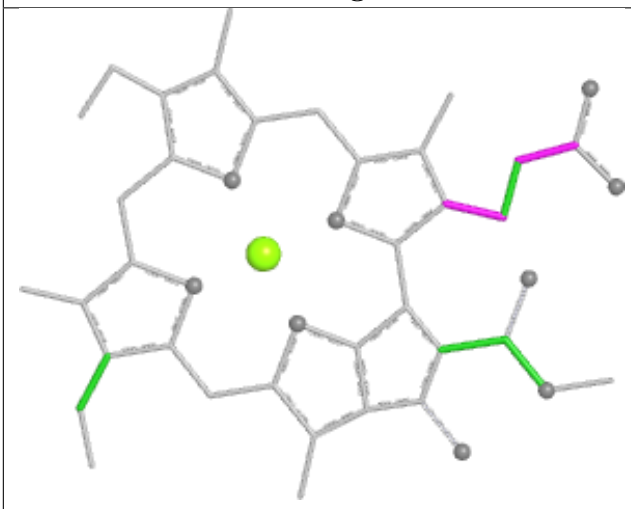


Bond angles



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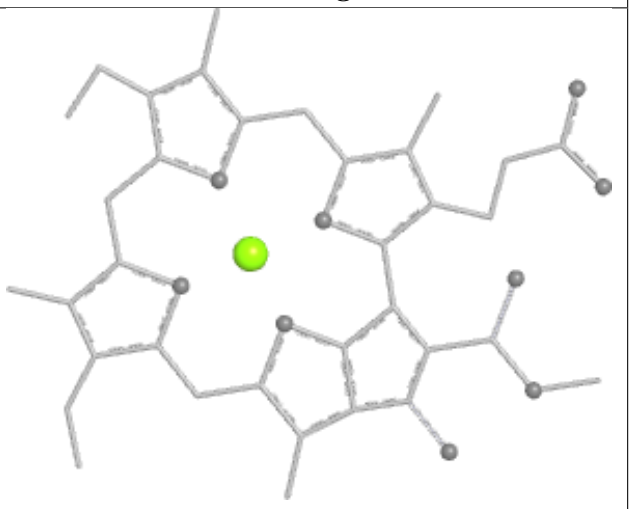
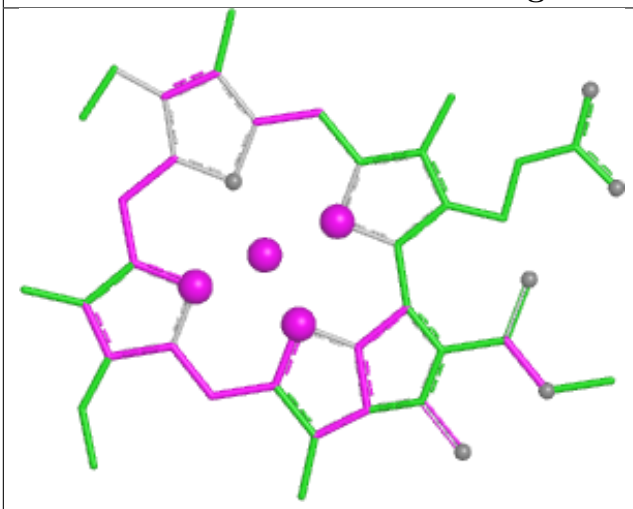


Rings

Ligand CLA b 829



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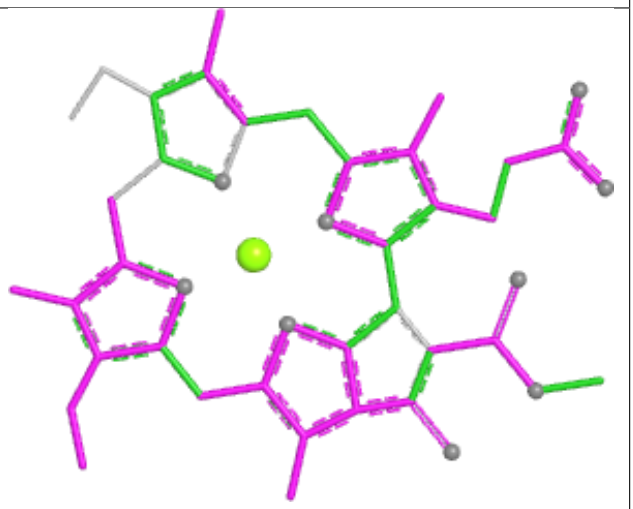
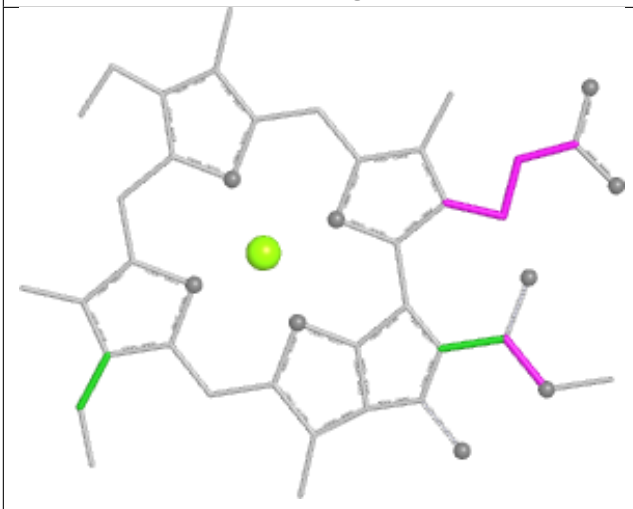


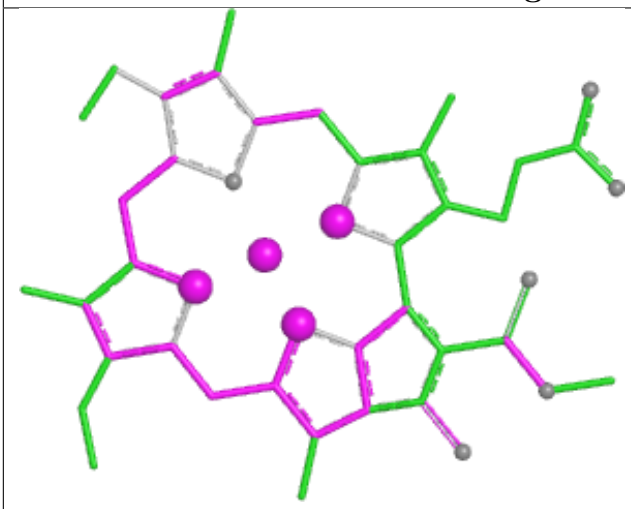
Bond angles



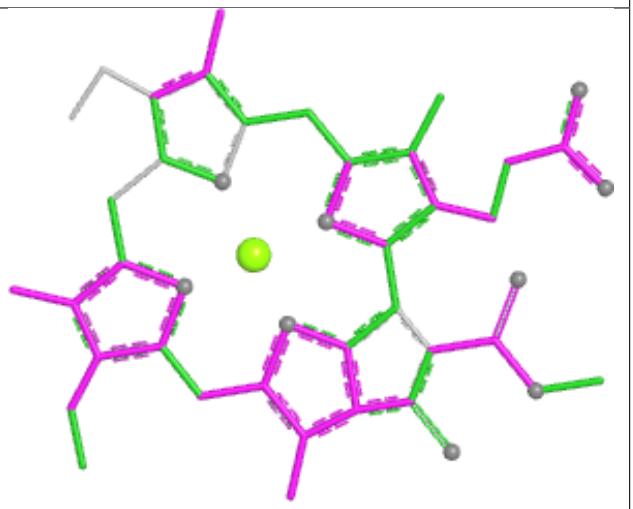
Torsions

Rings

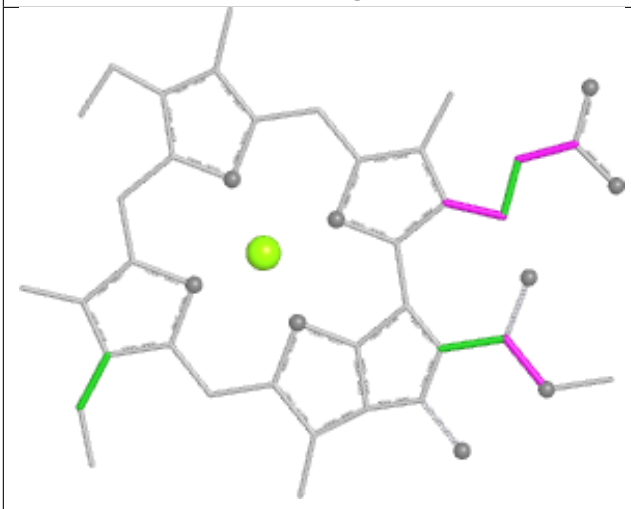
Ligand CLA B 838



Bond lengths



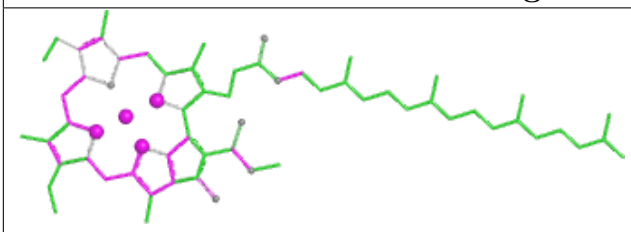
Bond angles



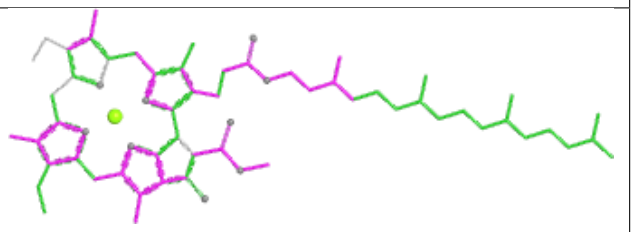
Torsions

Rings

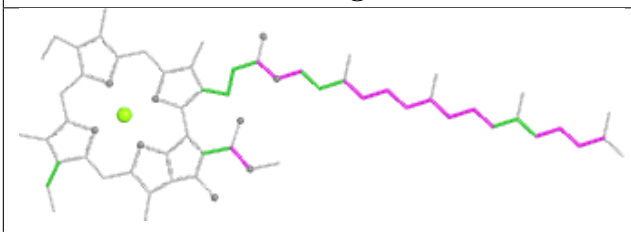
Ligand CLA H 806



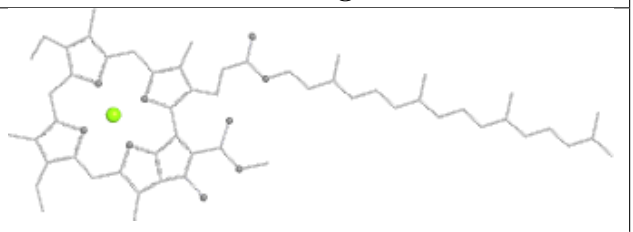
Bond lengths



Bond angles

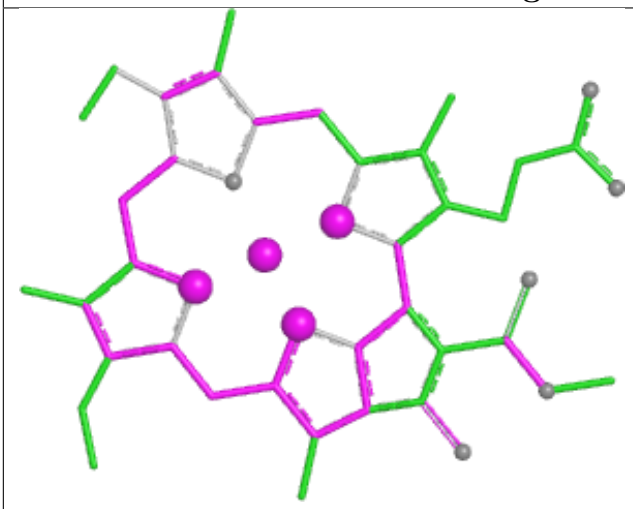


Torsions

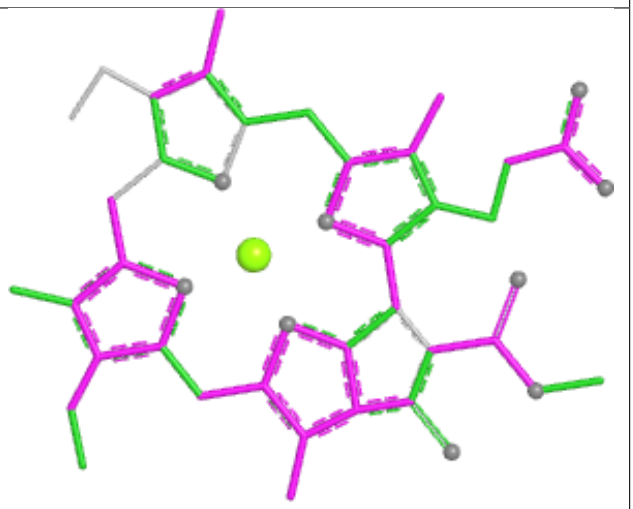


Rings

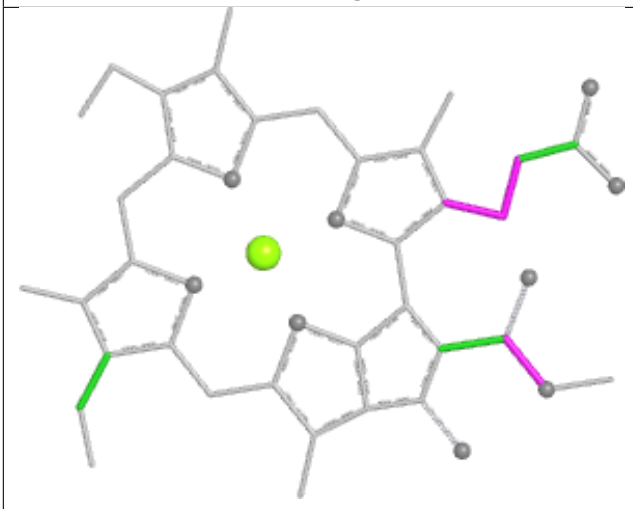
Ligand CLA G 816



Bond lengths



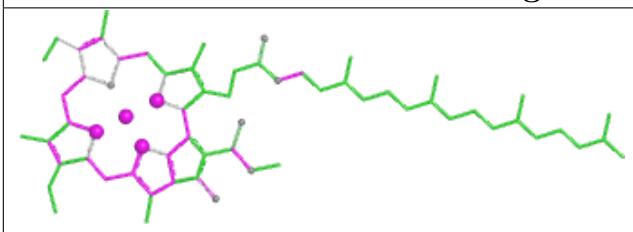
Bond angles



Torsions

Rings

Ligand CLA G 842



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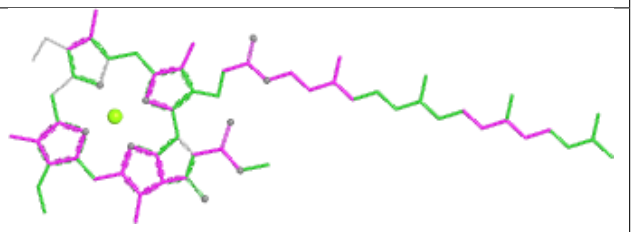
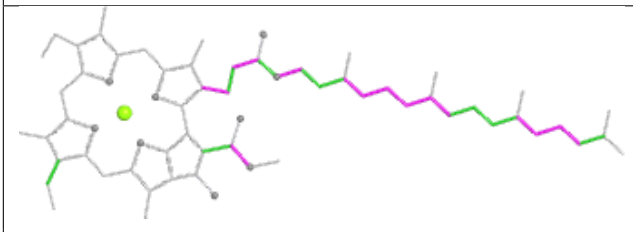
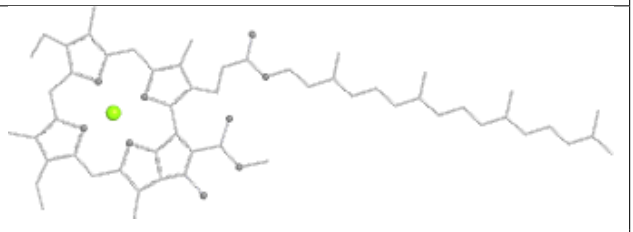


Bond angles

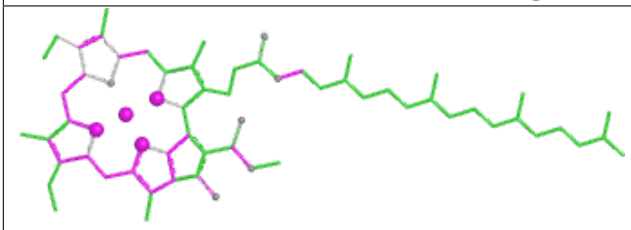


Torsions

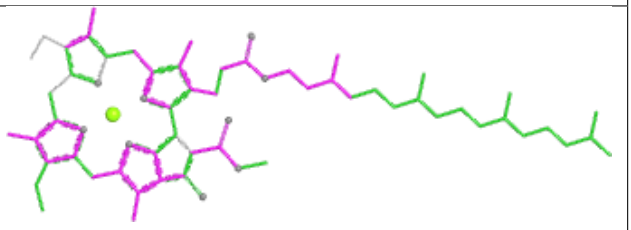


Rings

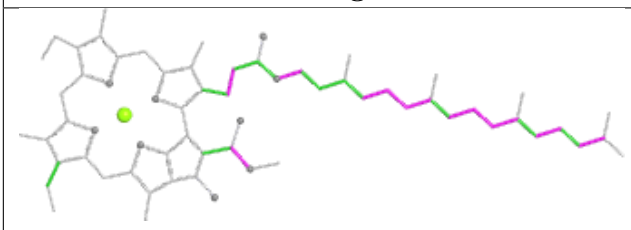
Ligand CLA b 839



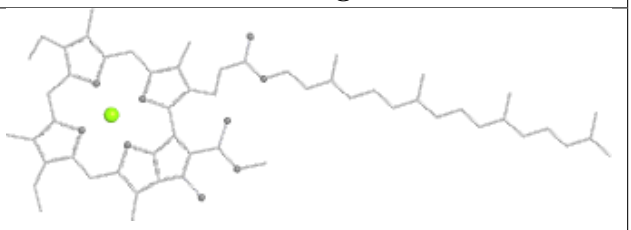
Bond lengths



Bond angles

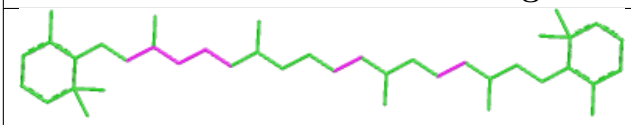


Torsions

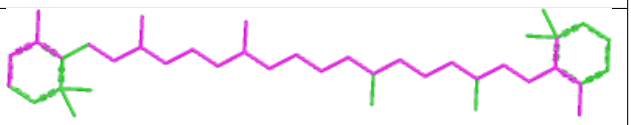


Rings

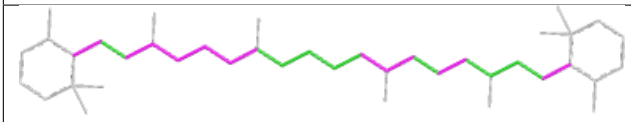
Ligand BCR A 853



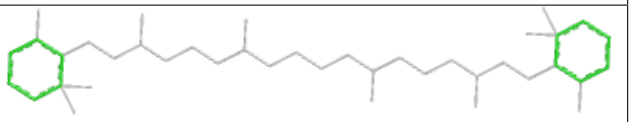
Bond lengths



Bond angles

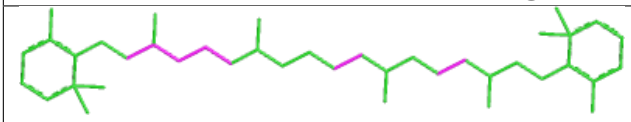


Torsions

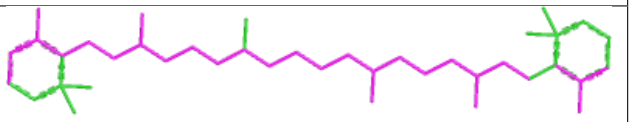


Rings

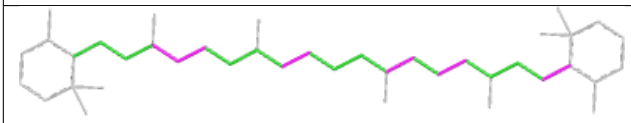
Ligand BCR B 846



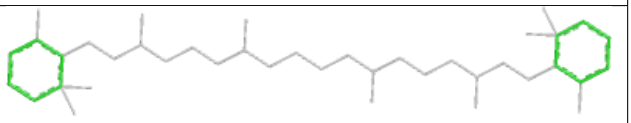
Bond lengths



Bond angles

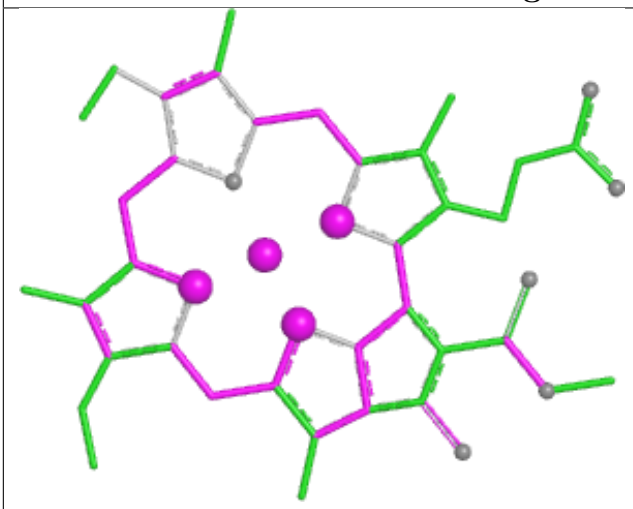


Torsions

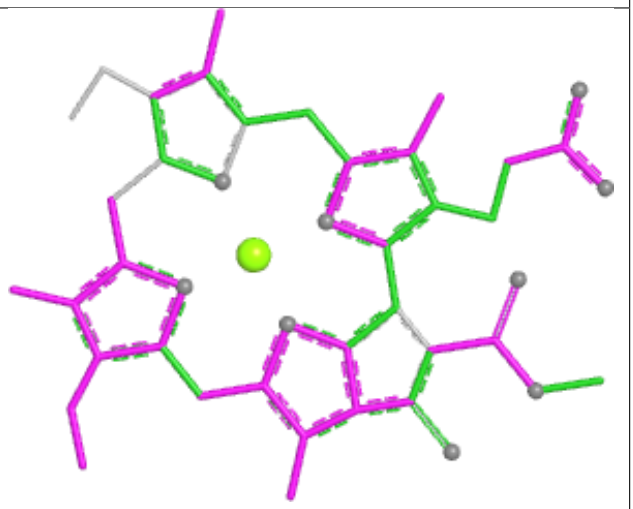


Rings

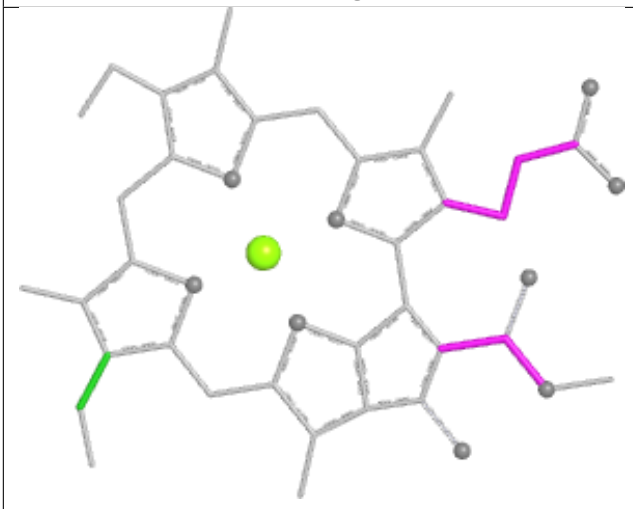
Ligand CLA H 814



Bond lengths



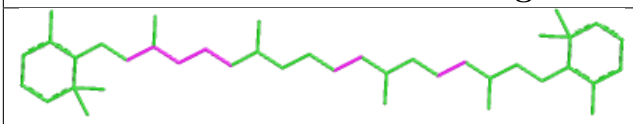
Bond angles



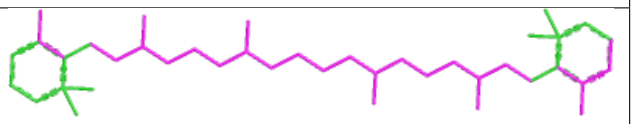
Torsions

Rings

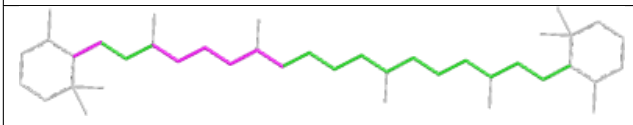
Ligand BCR F 1302



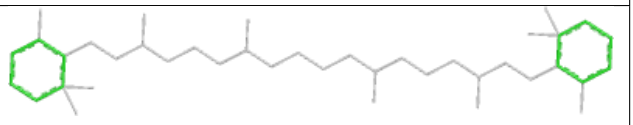
Bond lengths



Bond angles

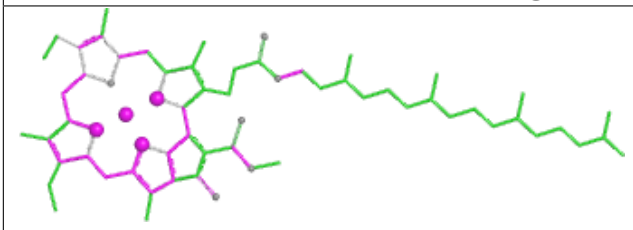


Torsions

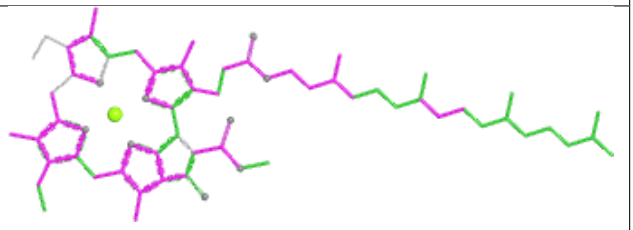


Rings

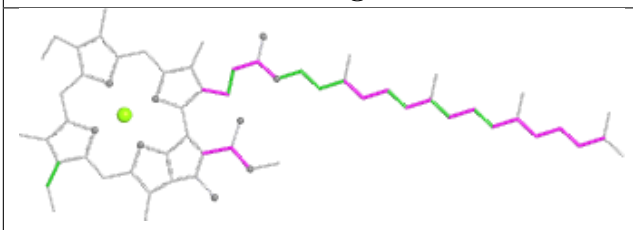
Ligand CLA b 812



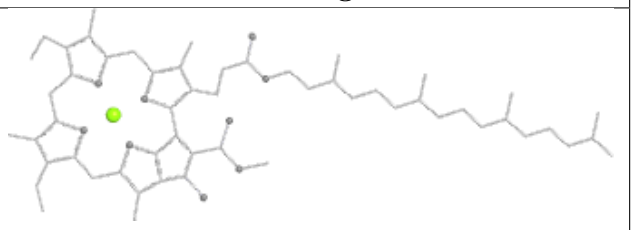
Bond lengths



Bond angles

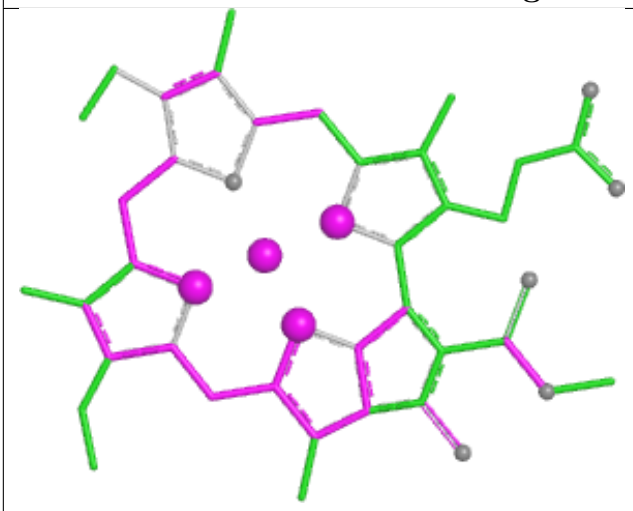


Torsions

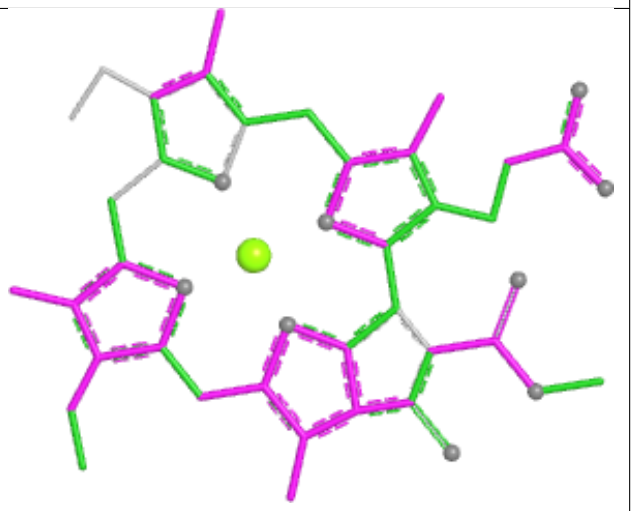


Rings

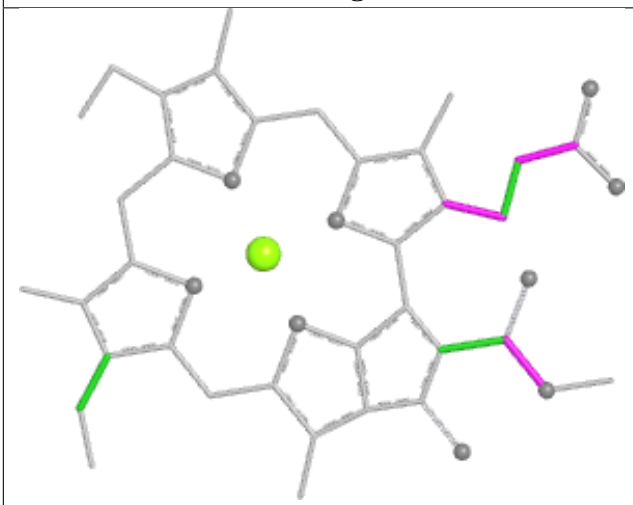
Ligand CLA G 824



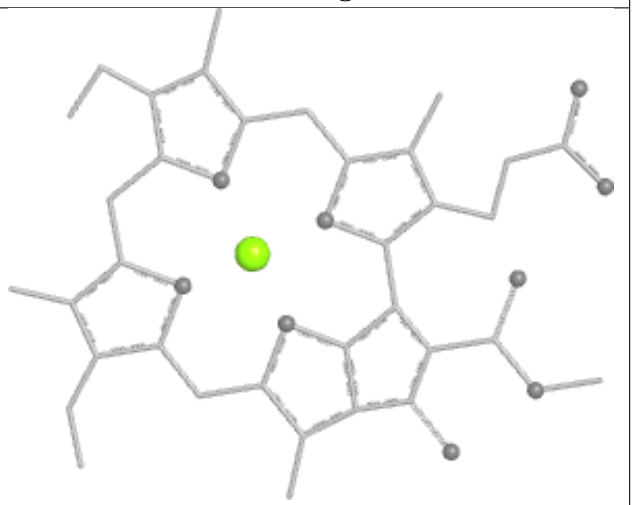
Bond lengths



Bond angles

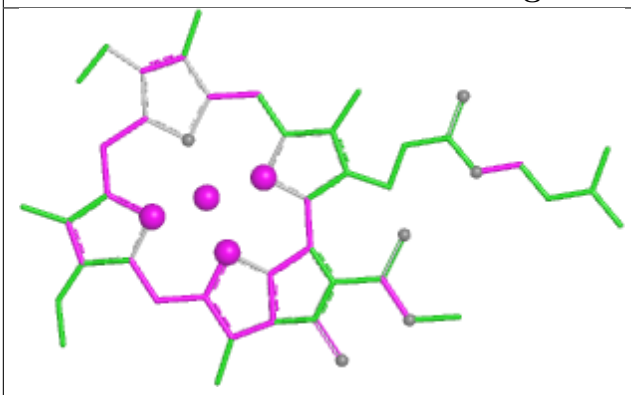


Torsions



Rings

Ligand CLA A 821



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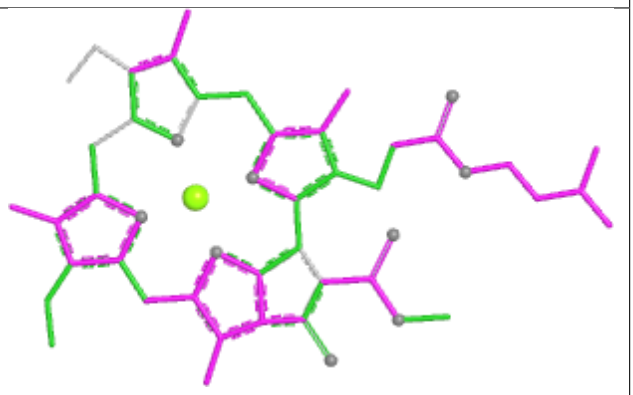
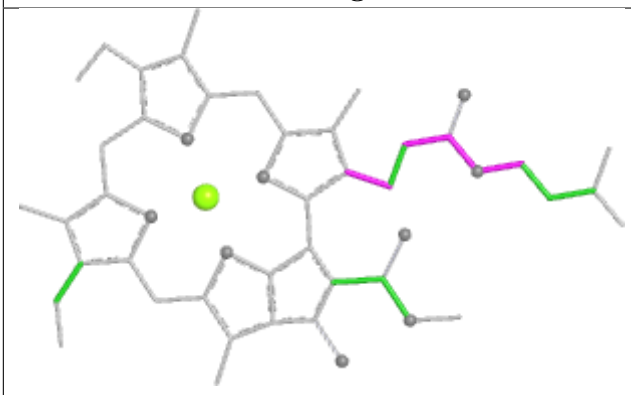


Bond angles



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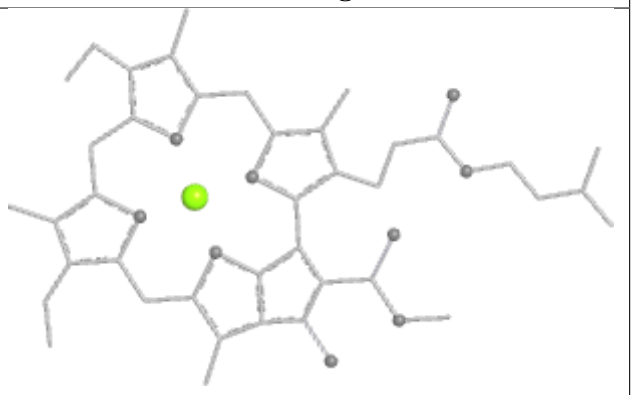
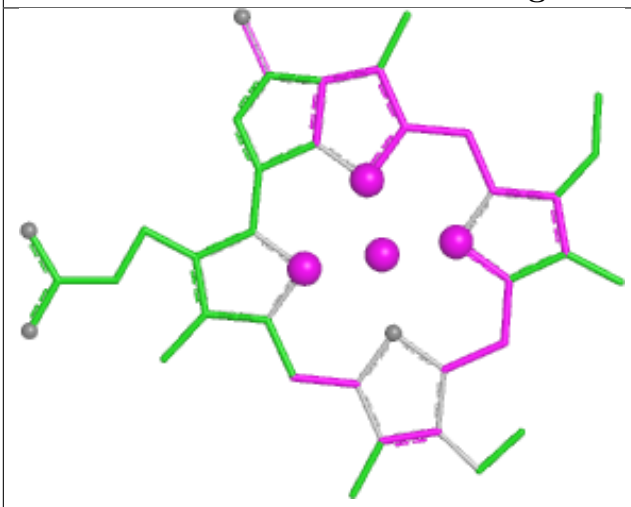


Rings

Ligand CLA a 843



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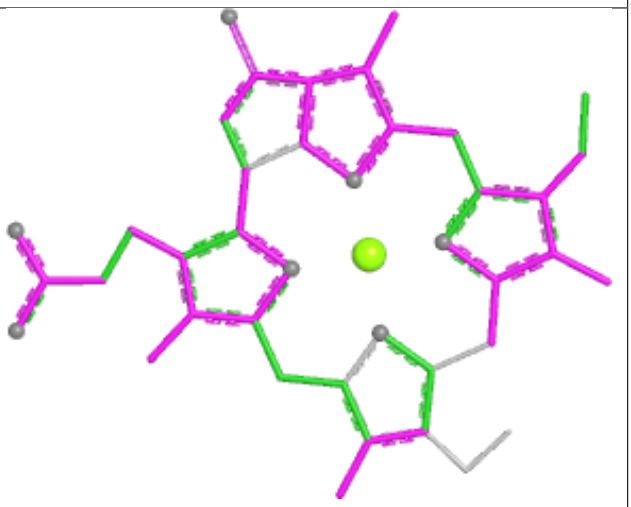
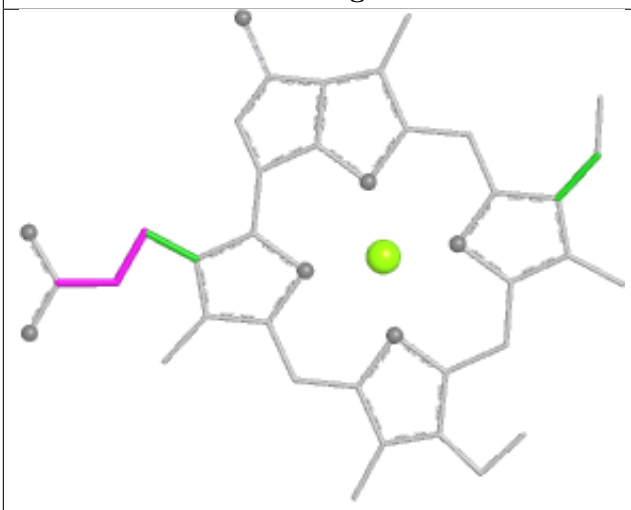


Bond angles



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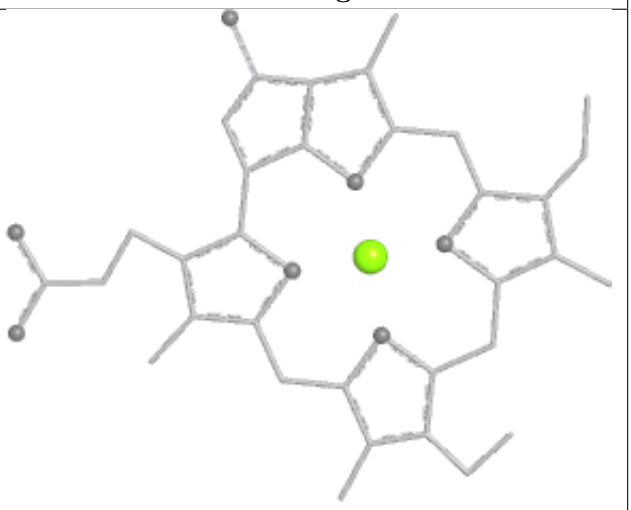
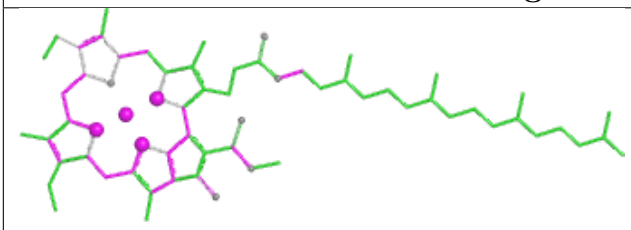


Rings

Ligand CLA B 840



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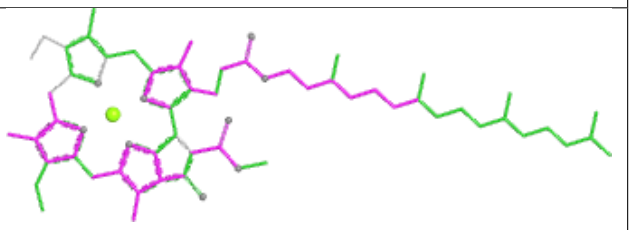
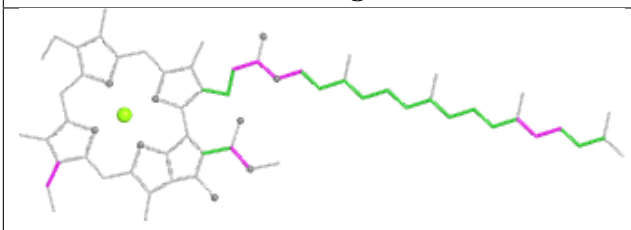
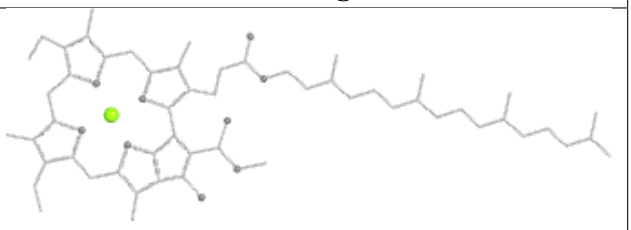


Bond angles

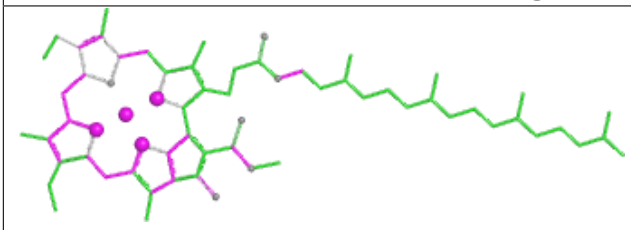


Torsions

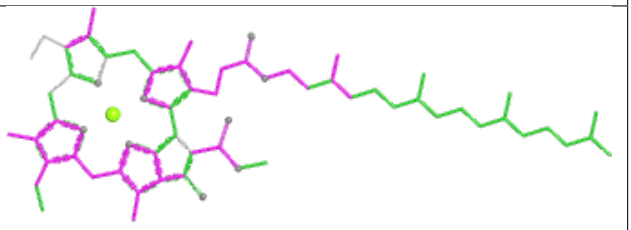


Rings

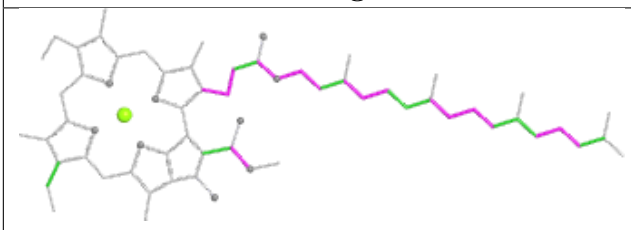
Ligand CLA a 828



Bond lengths



Bond angles



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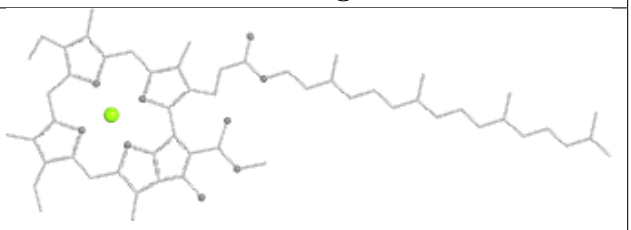
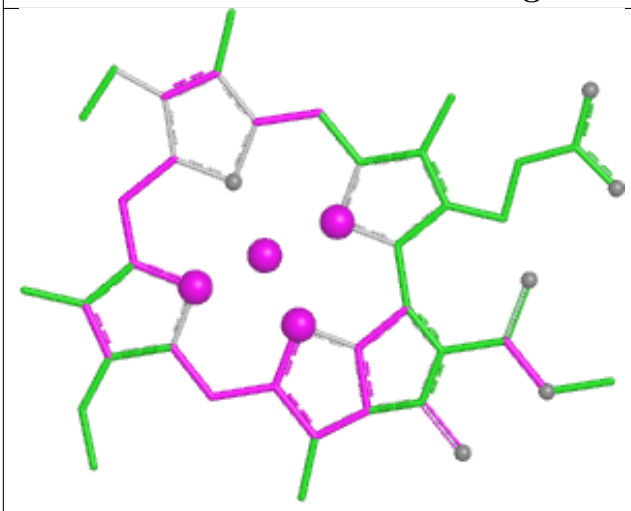
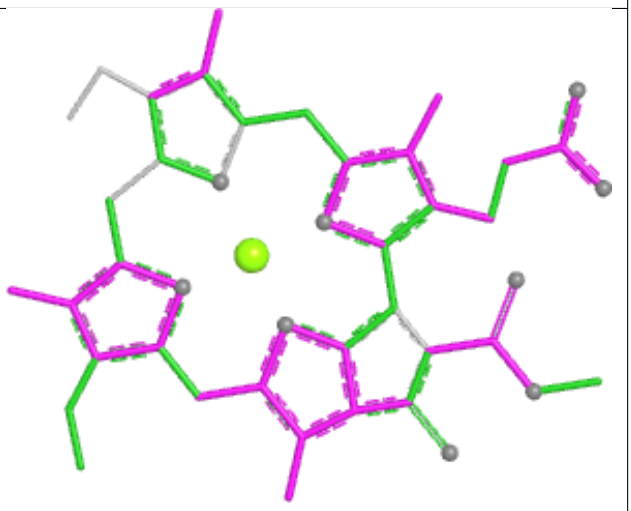


Rings

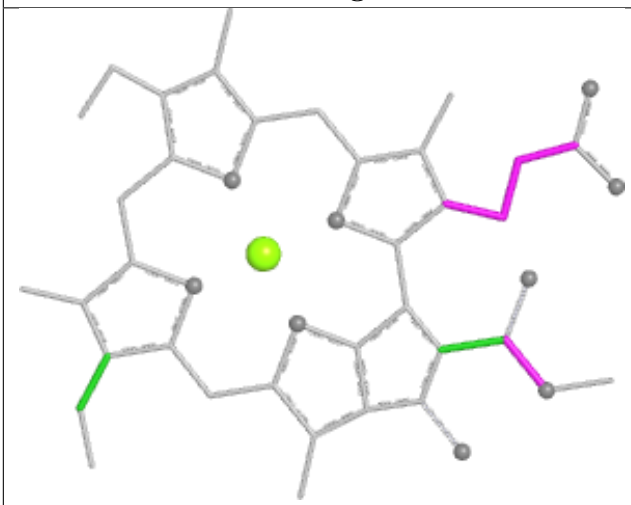
Ligand CLA G 823



Bond lengths



Bond angles



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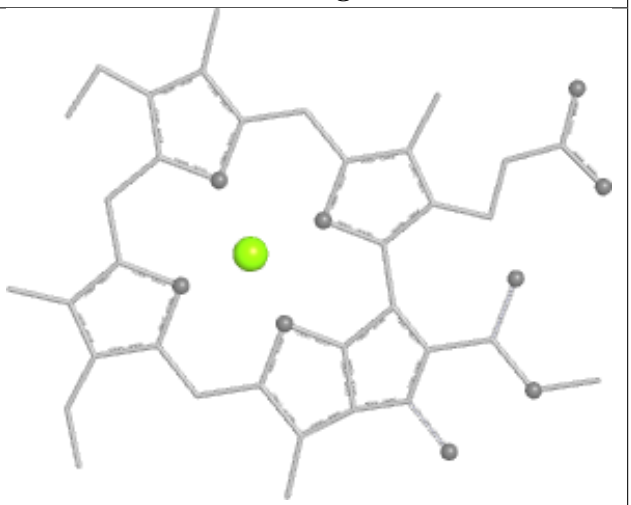
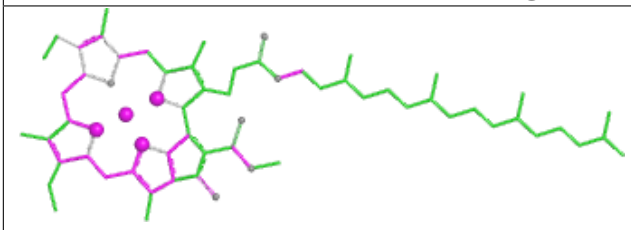
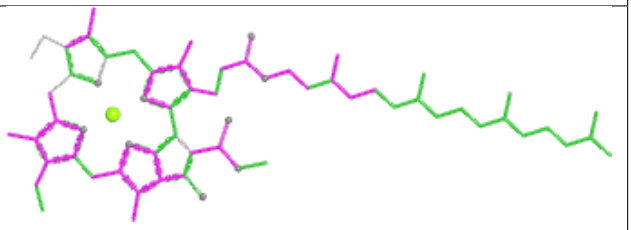
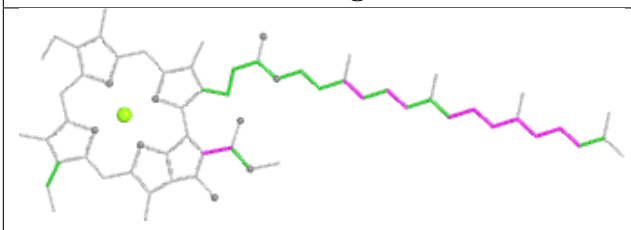
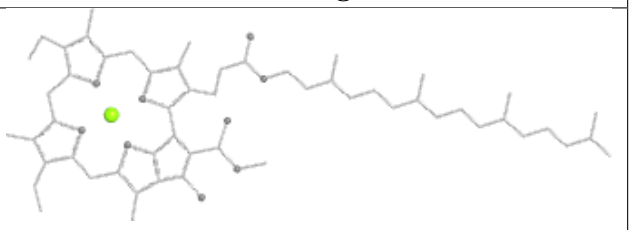
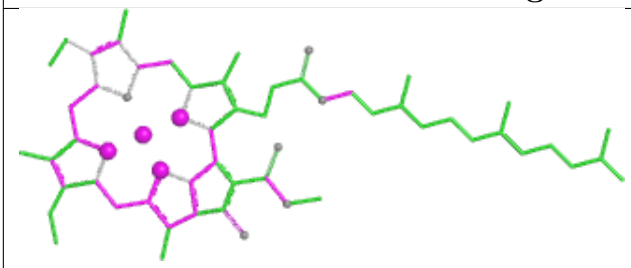
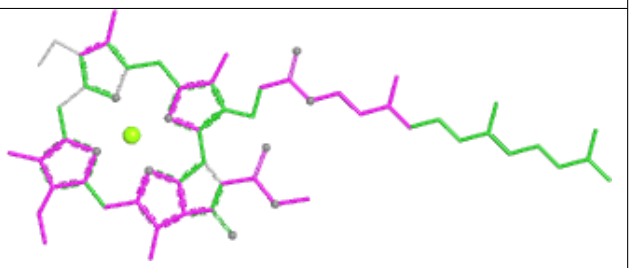
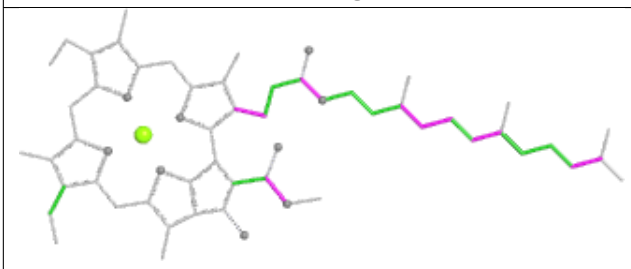
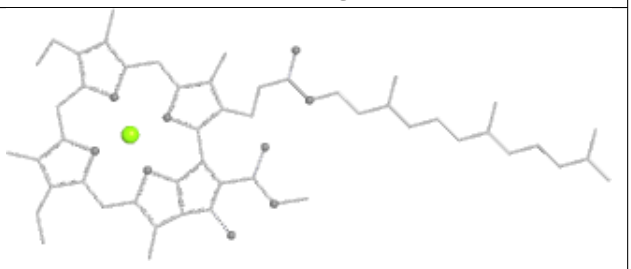
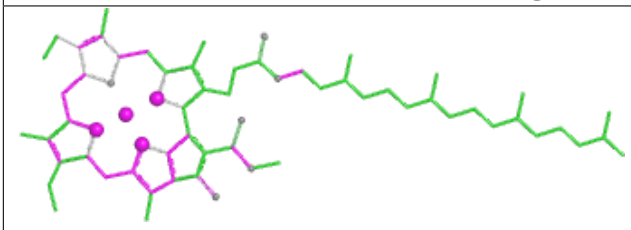


Rings

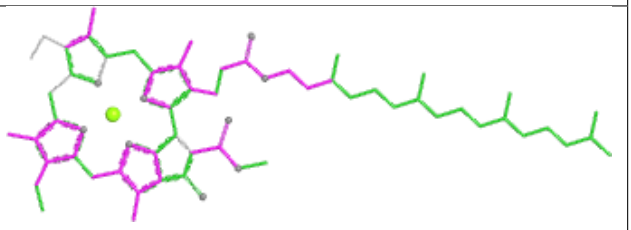
Ligand CLA G 839	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA L 204	
 Bond lengths	 Bond angles
 Torsions	 Rings

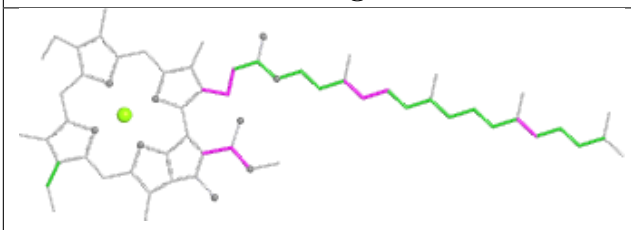
Ligand CLA a 834



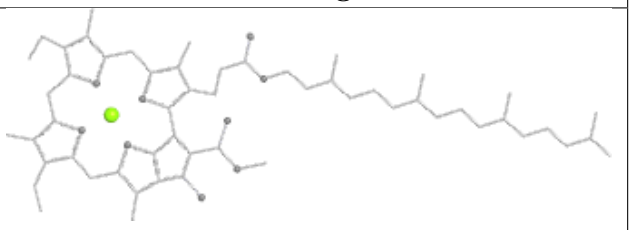
Bond lengths



Bond angles

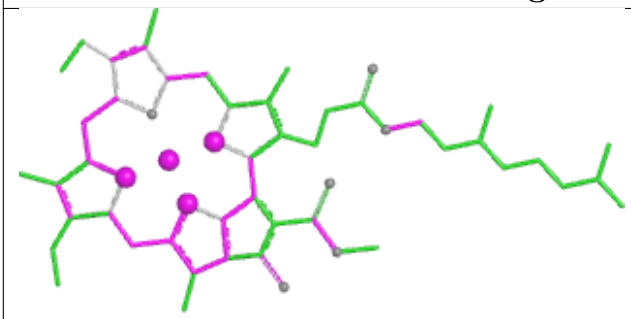


Torsions

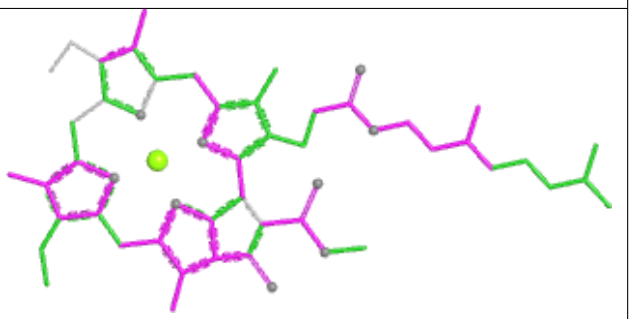


Rings

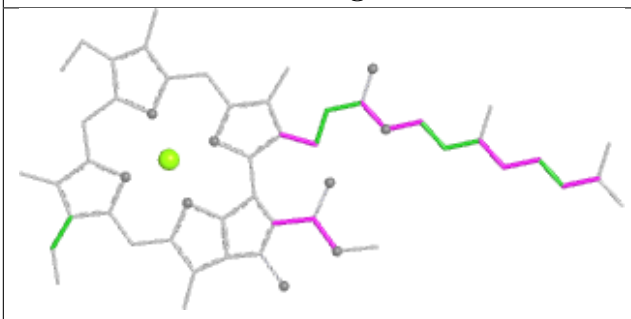
Ligand CLA a 804



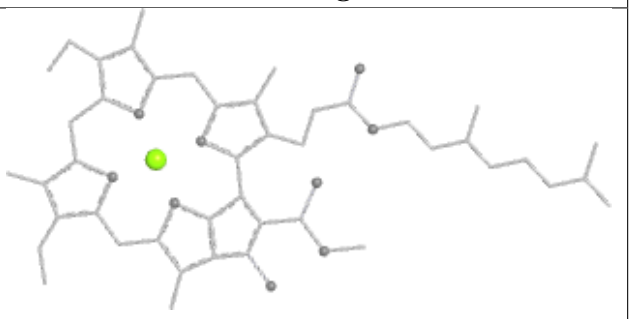
Bond lengths



Bond angles

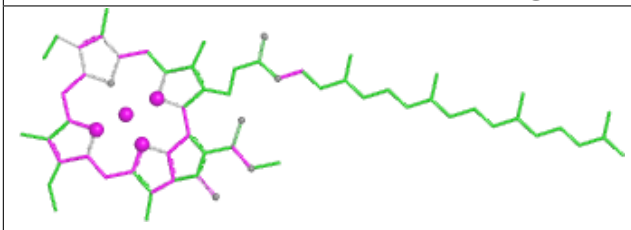


Torsions

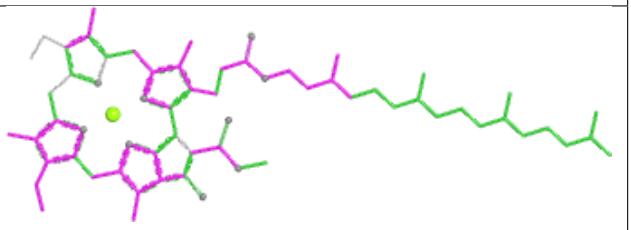


Rings

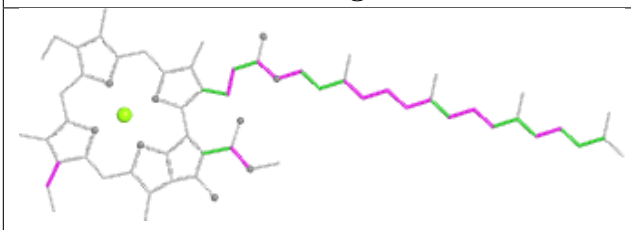
Ligand CLA b 804



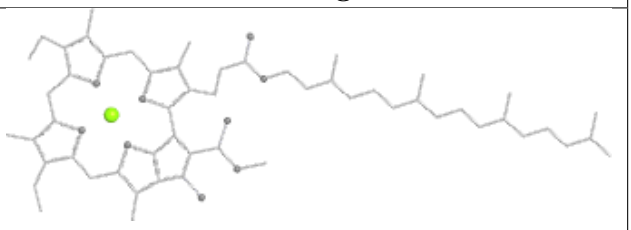
Bond lengths



Bond angles

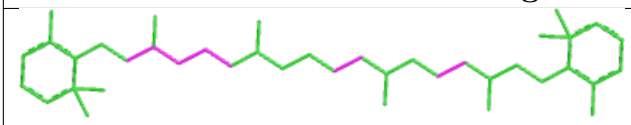


Torsions

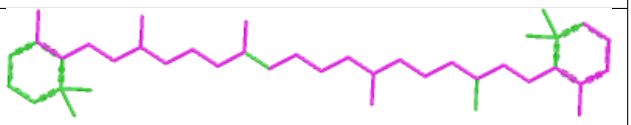


Rings

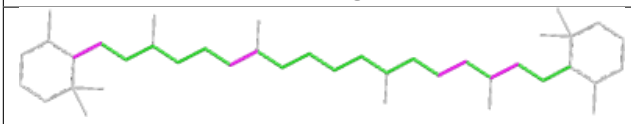
Ligand BCR G 852



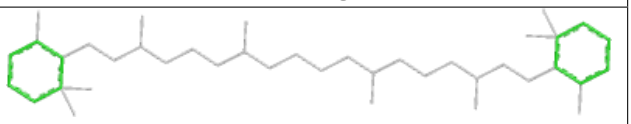
Bond lengths



Bond angles

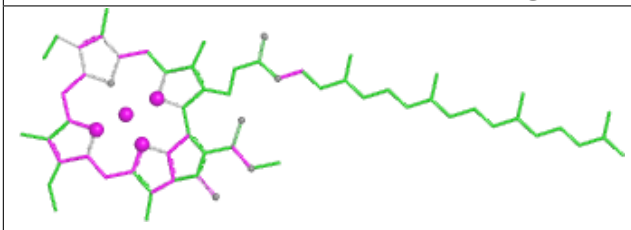


Torsions

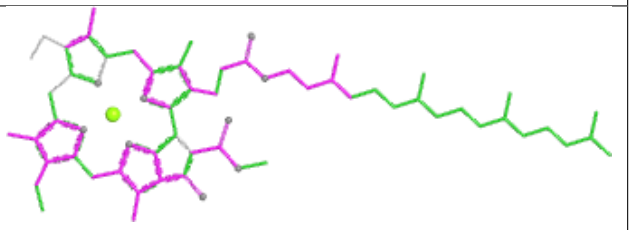


Rings

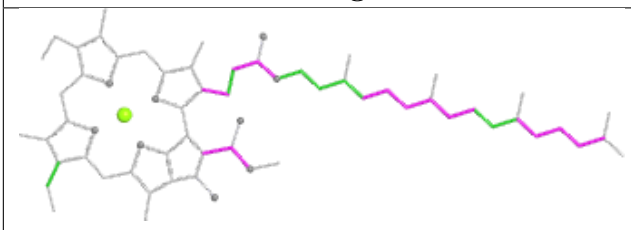
Ligand CLA B 812



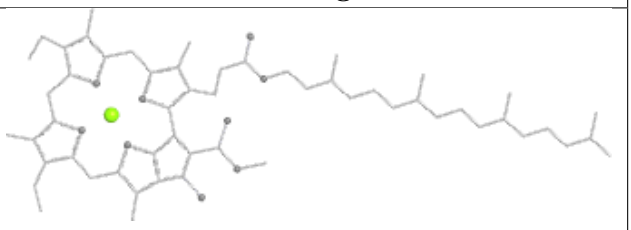
Bond lengths



Bond angles

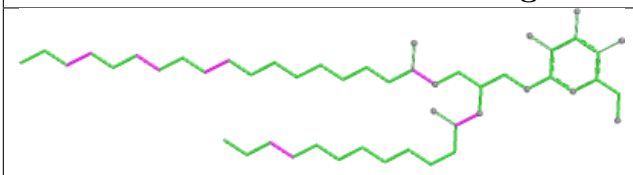


Torsions

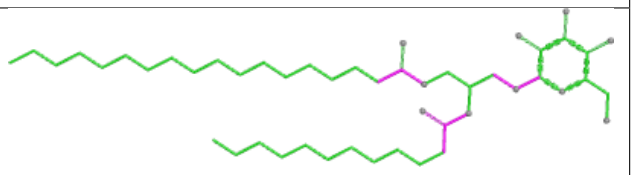


Rings

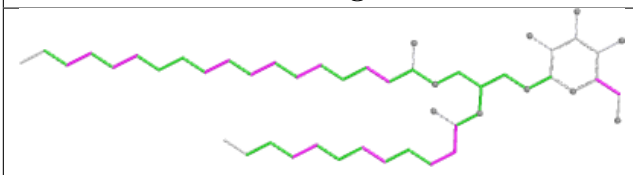
Ligand LMG B 849



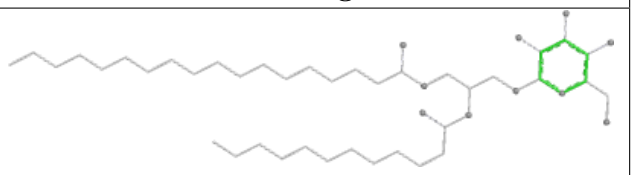
Bond lengths



Bond angles

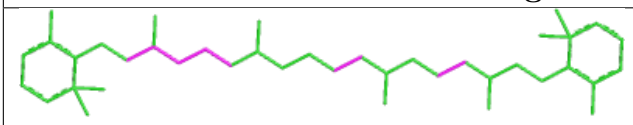


Torsions

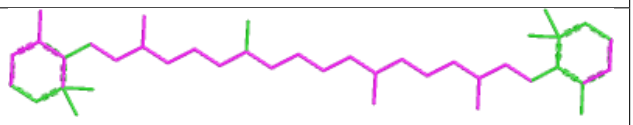


Rings

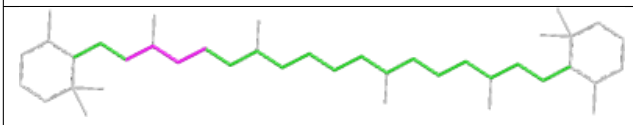
Ligand BCR L 207



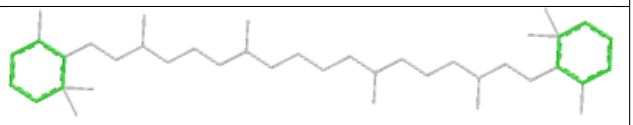
Bond lengths



Bond angles

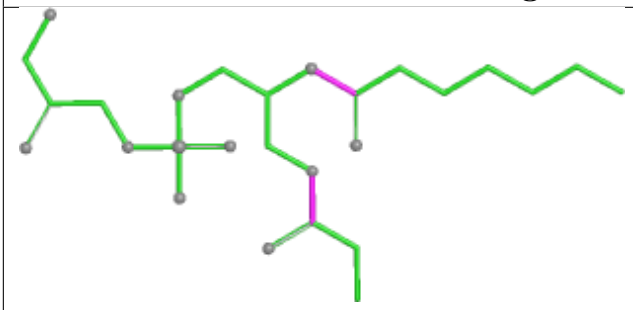


Torsions

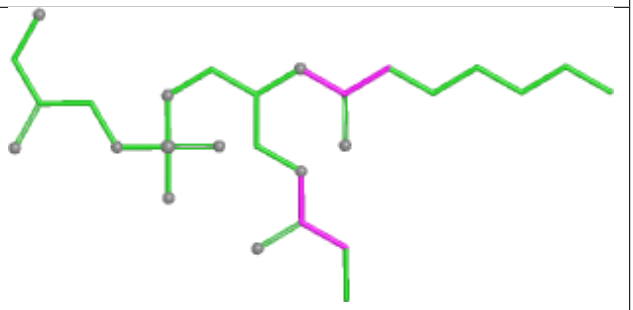


Rings

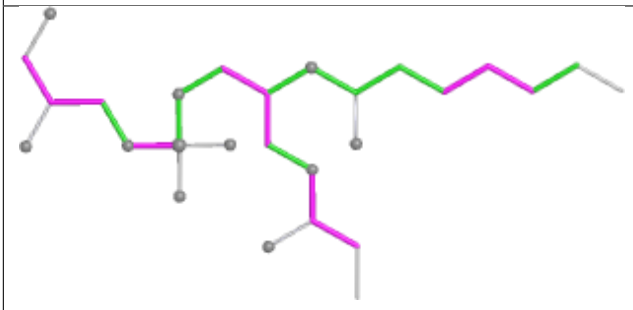
Ligand LHG G 855



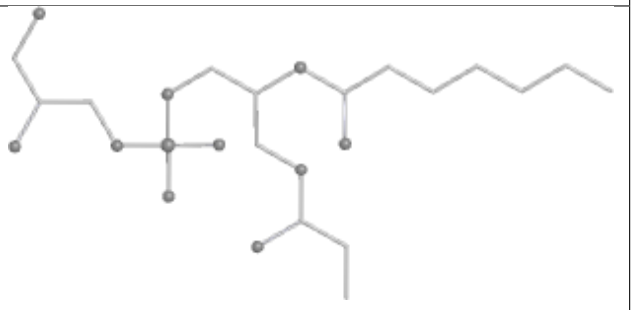
Bond lengths



Bond angles

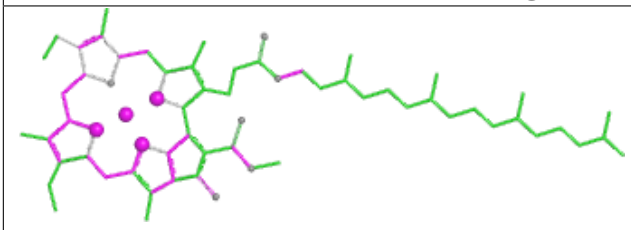


Torsions

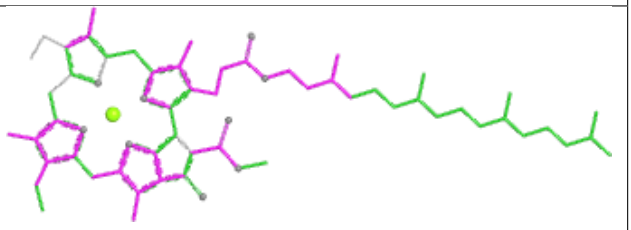


Rings

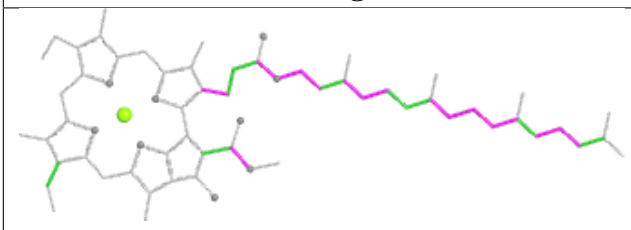
Ligand CLA G 829



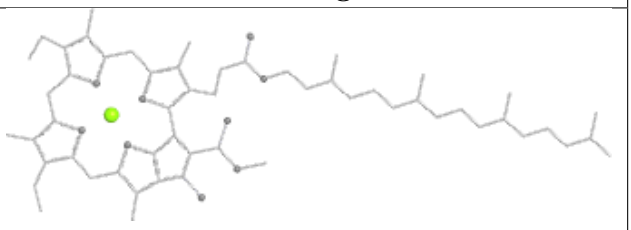
Bond lengths



Bond angles

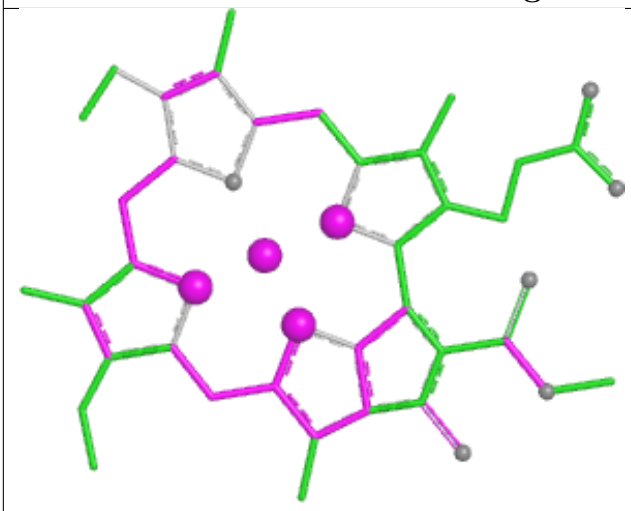


Torsions

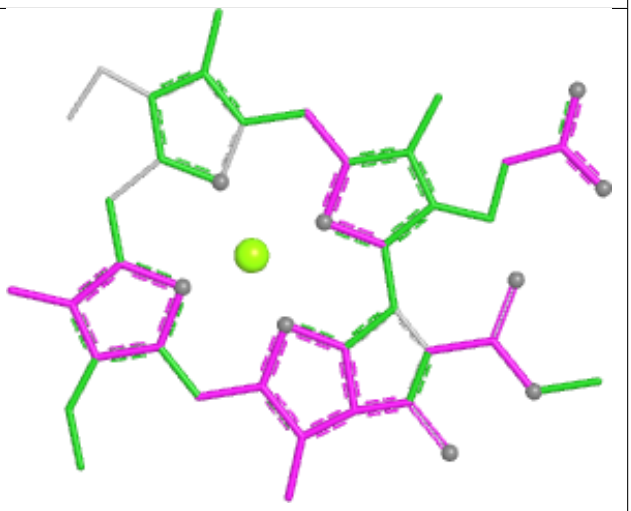


Rings

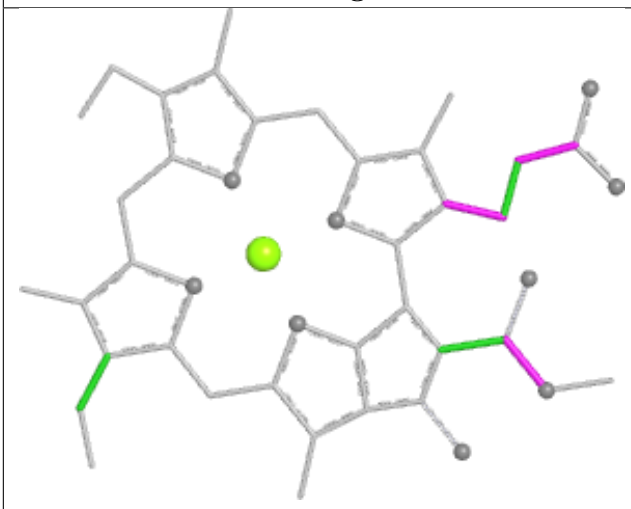
Ligand CLA A 818



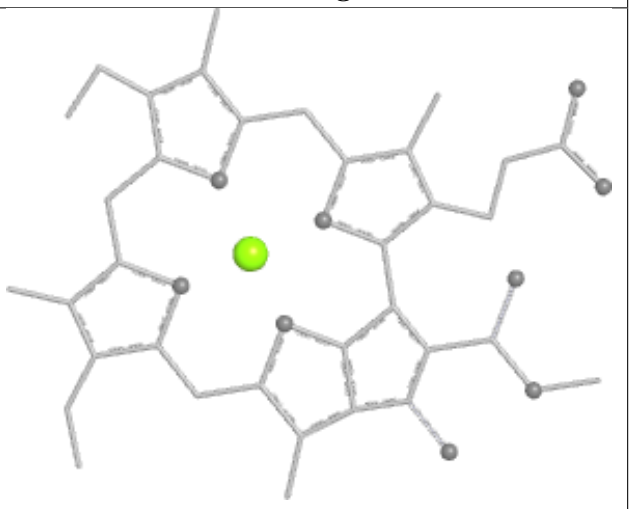
Bond lengths



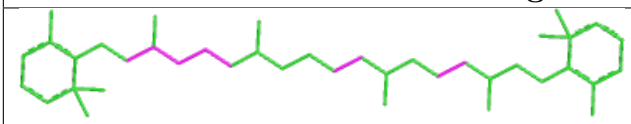
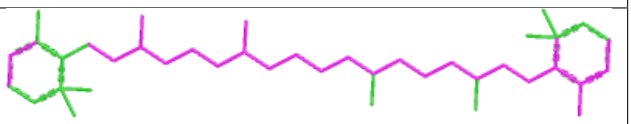
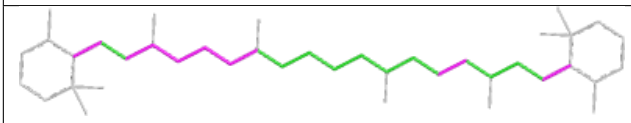
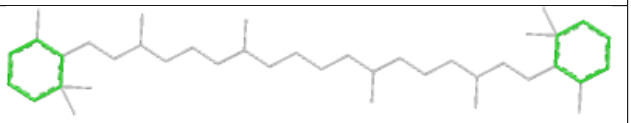
Bond angles

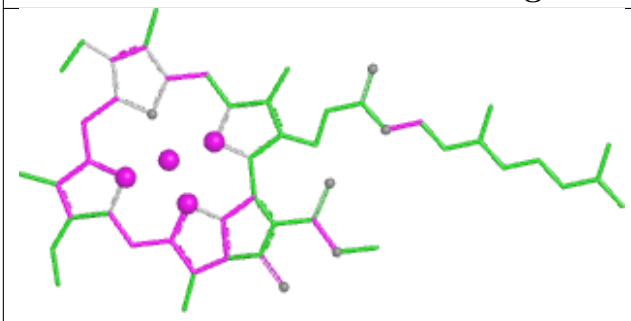
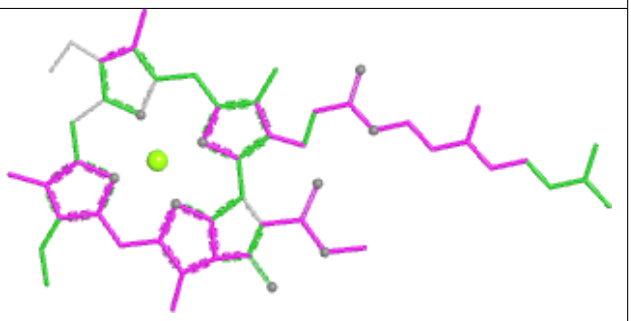
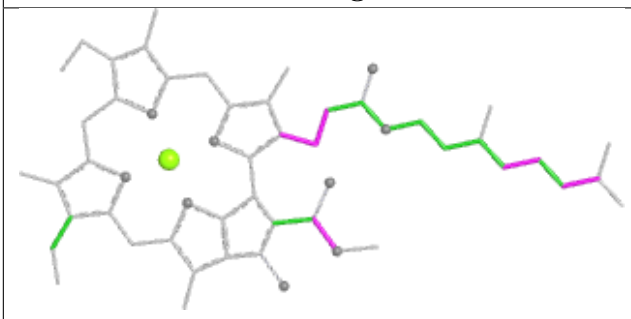
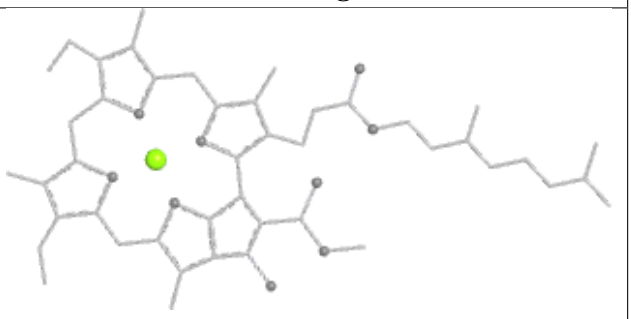


Torsions

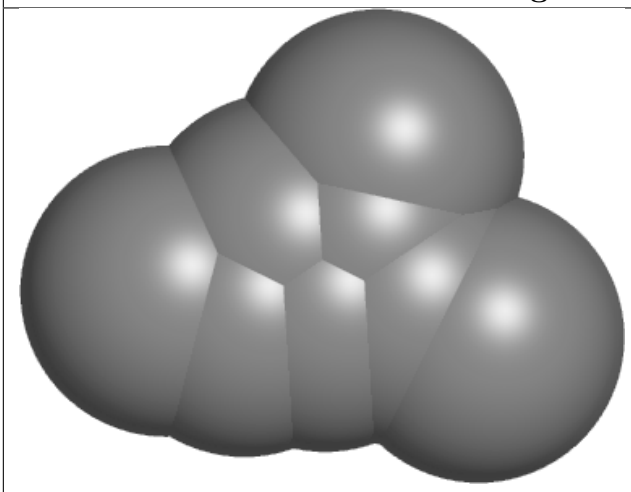


Rings

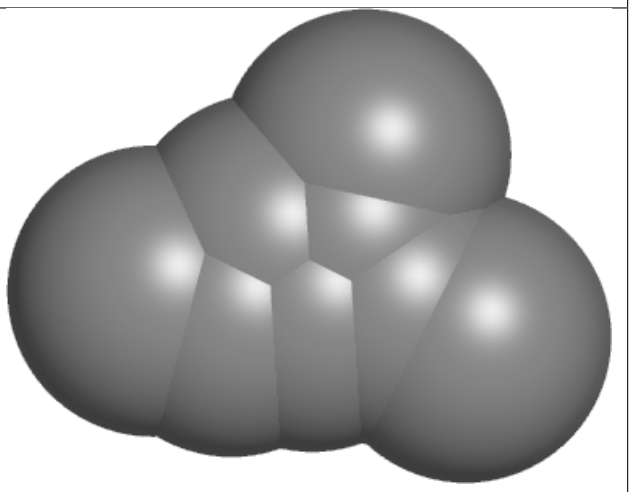
Ligand BCR a 850	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 816	
 Bond lengths	 Bond angles
 Torsions	 Rings

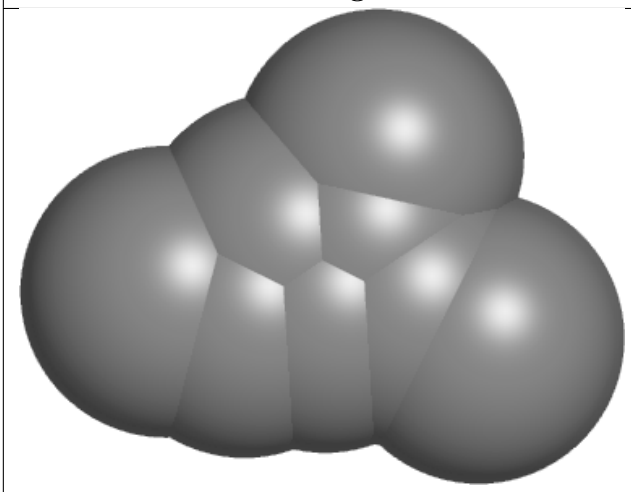
Ligand SF4 N 101



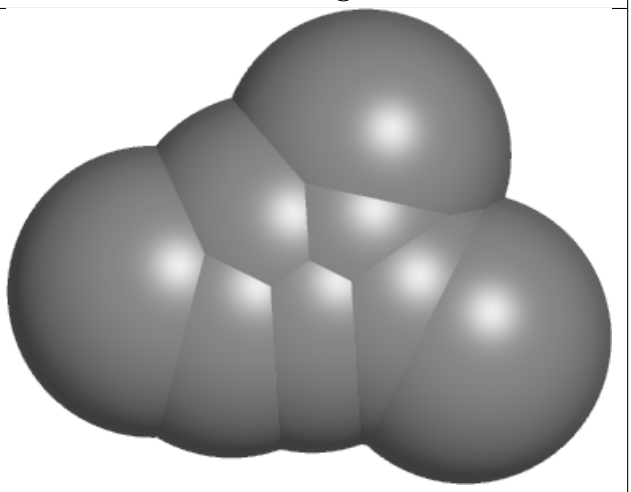
Bond lengths



Bond angles

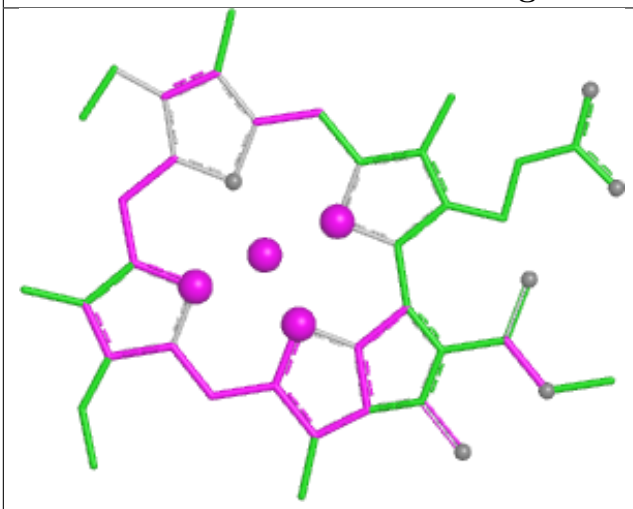


Torsions

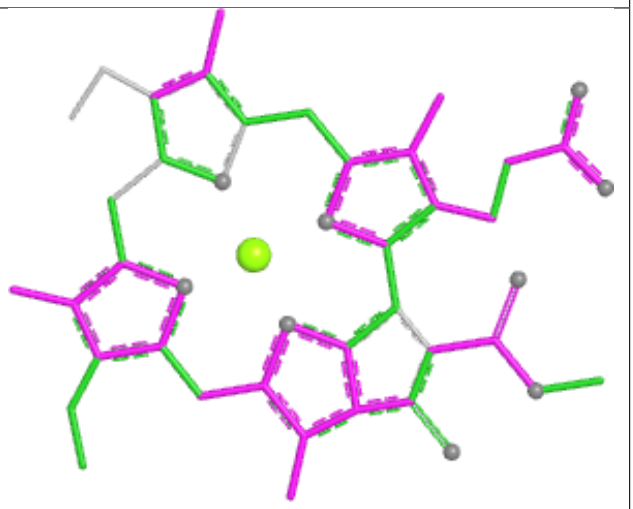


Rings

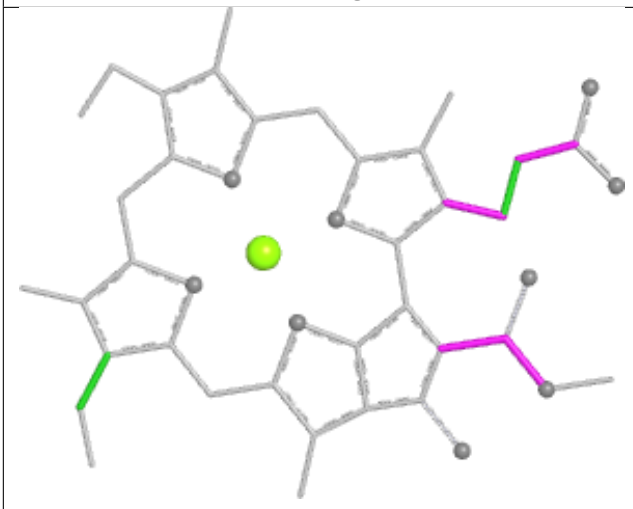
Ligand CLA k 1401



Bond lengths



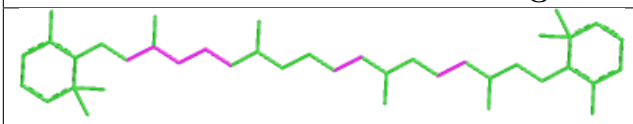
Bond angles



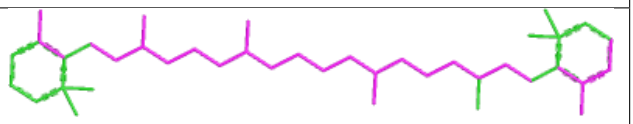
Torsions

Rings

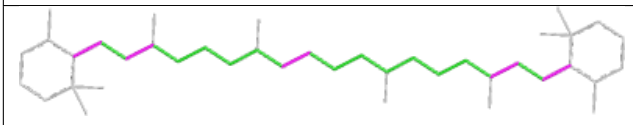
Ligand BCR l 208



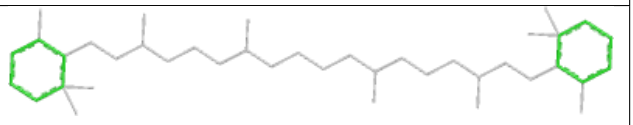
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

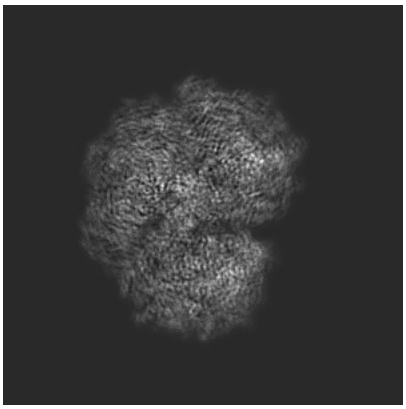
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-43525. These allow visual inspection of the internal detail of the map and identification of artifacts.

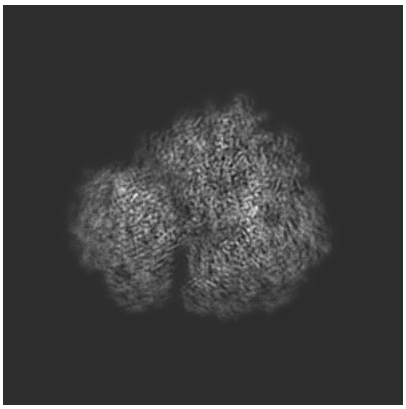
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

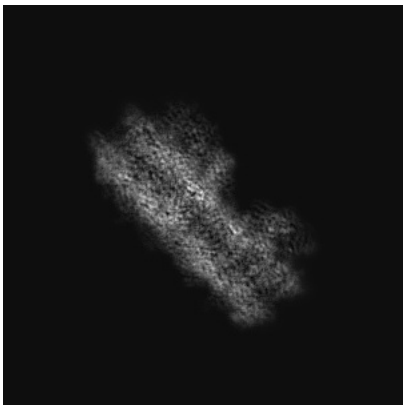
6.1.1 Primary map



X

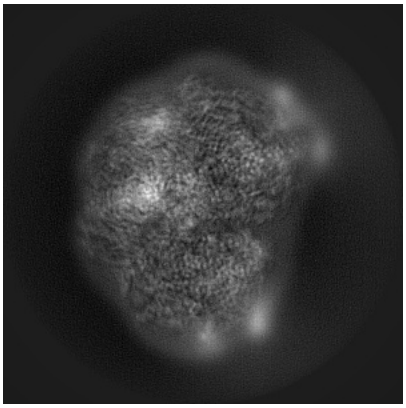


Y

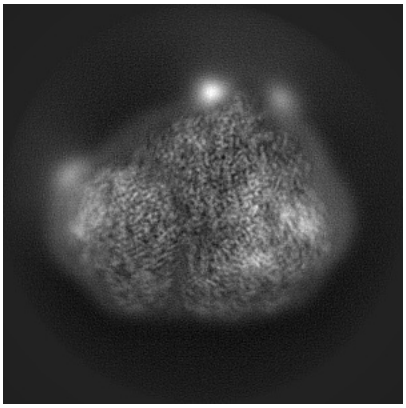


Z

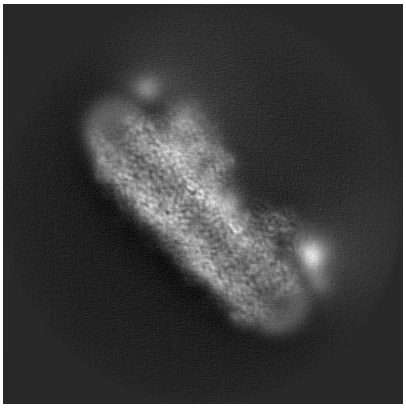
6.1.2 Raw map



X



Y

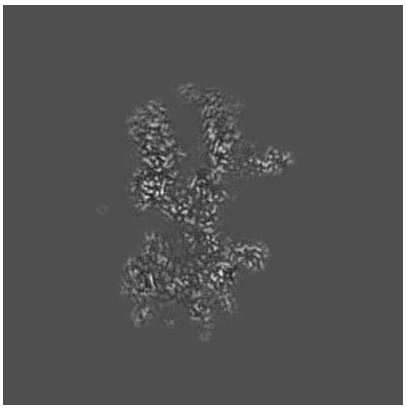


Z

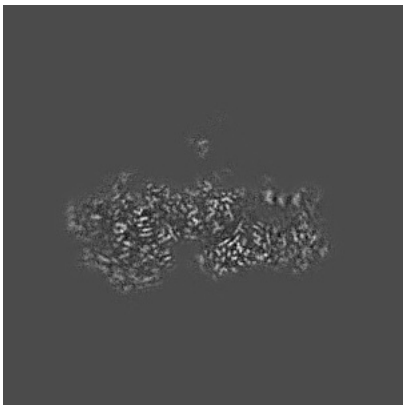
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

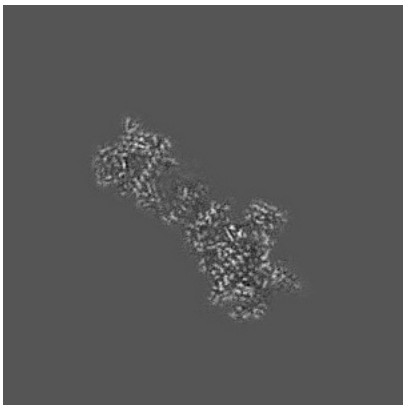
6.2.1 Primary map



X Index: 180

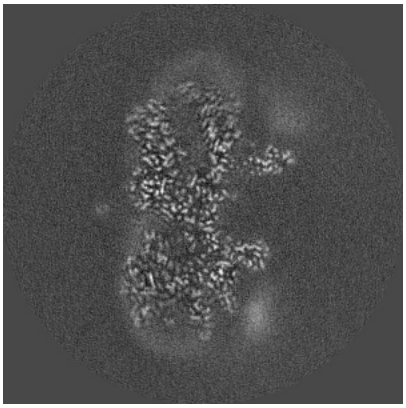


Y Index: 180

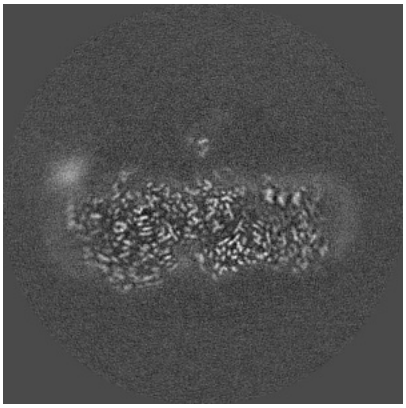


Z Index: 180

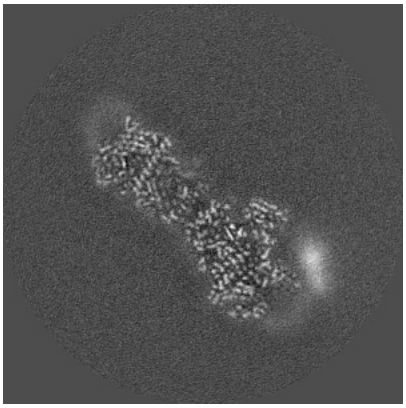
6.2.2 Raw map



X Index: 180



Y Index: 180



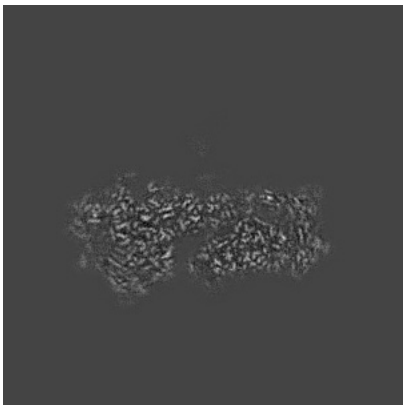
Z Index: 180

The images above show central slices of the map in three orthogonal directions.

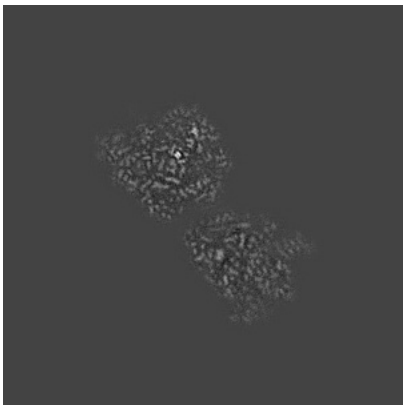
6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 172

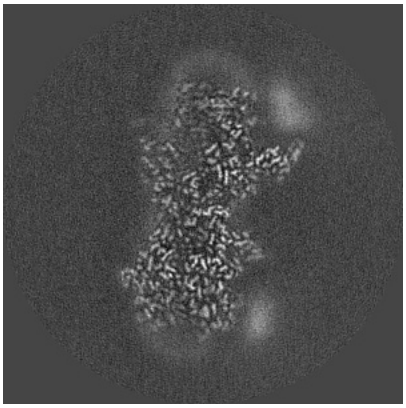


Y Index: 185

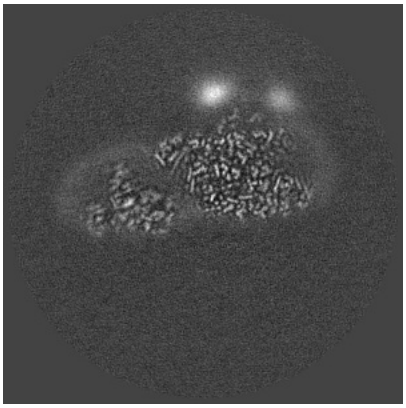


Z Index: 223

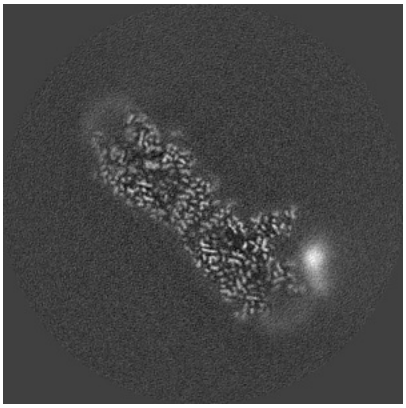
6.3.2 Raw map



X Index: 167



Y Index: 133

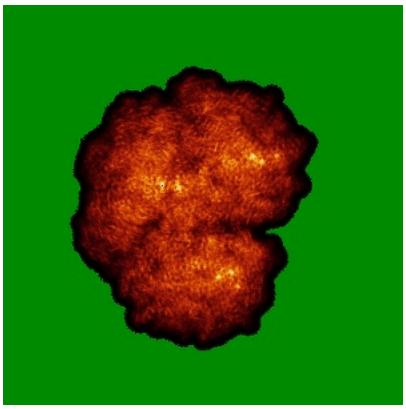


Z Index: 191

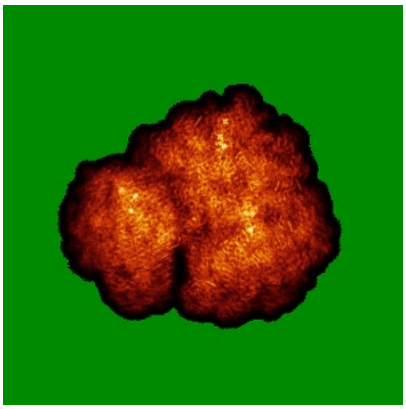
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

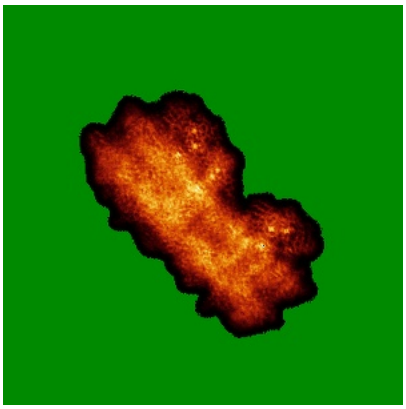
6.4.1 Primary map



X

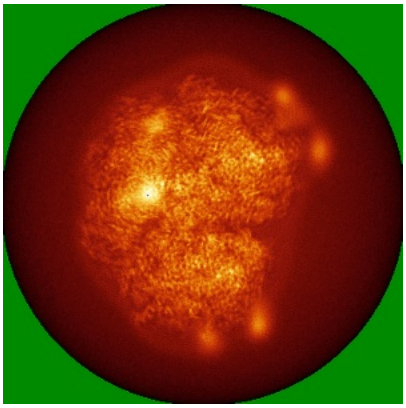


Y

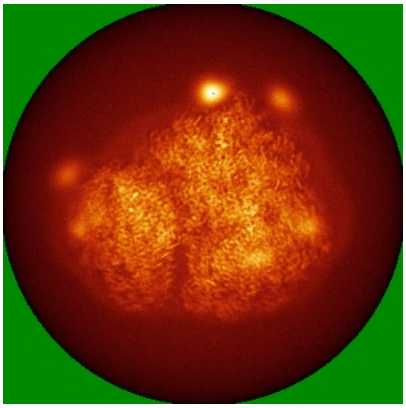


Z

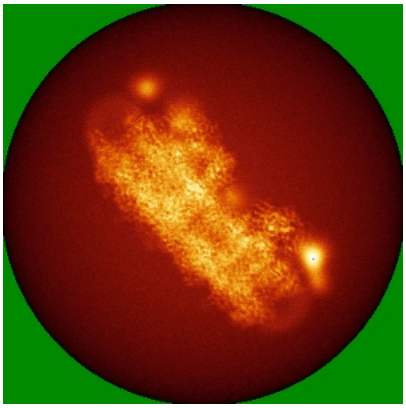
6.4.2 Raw map



X



Y

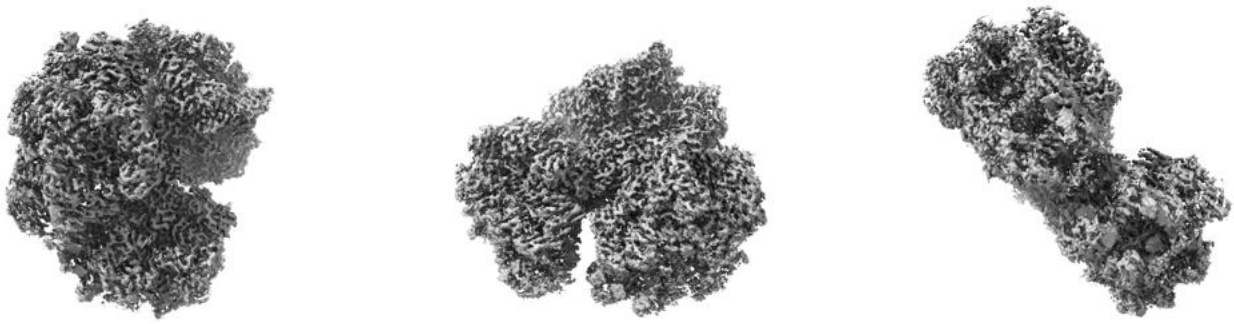


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.00404. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

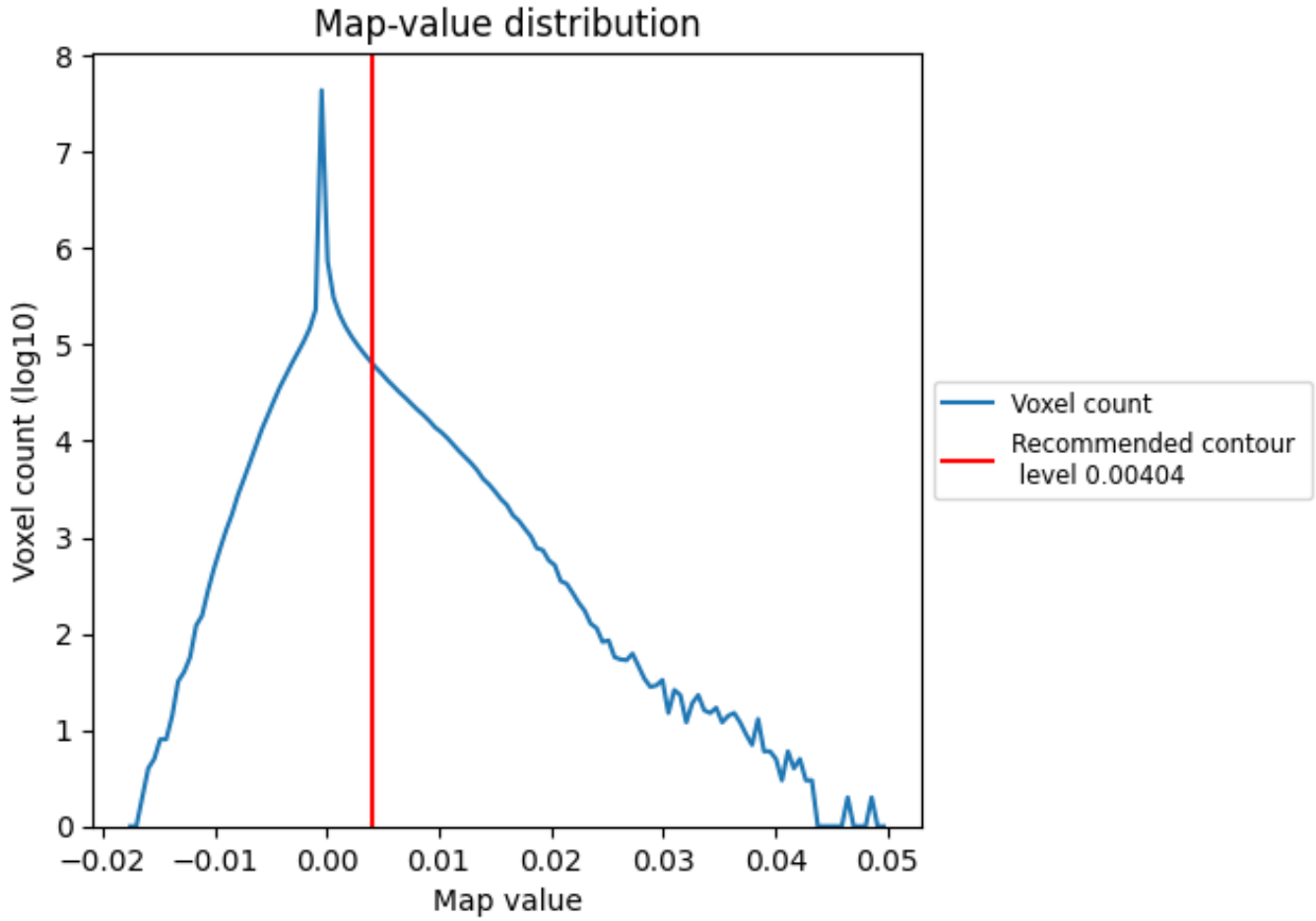
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

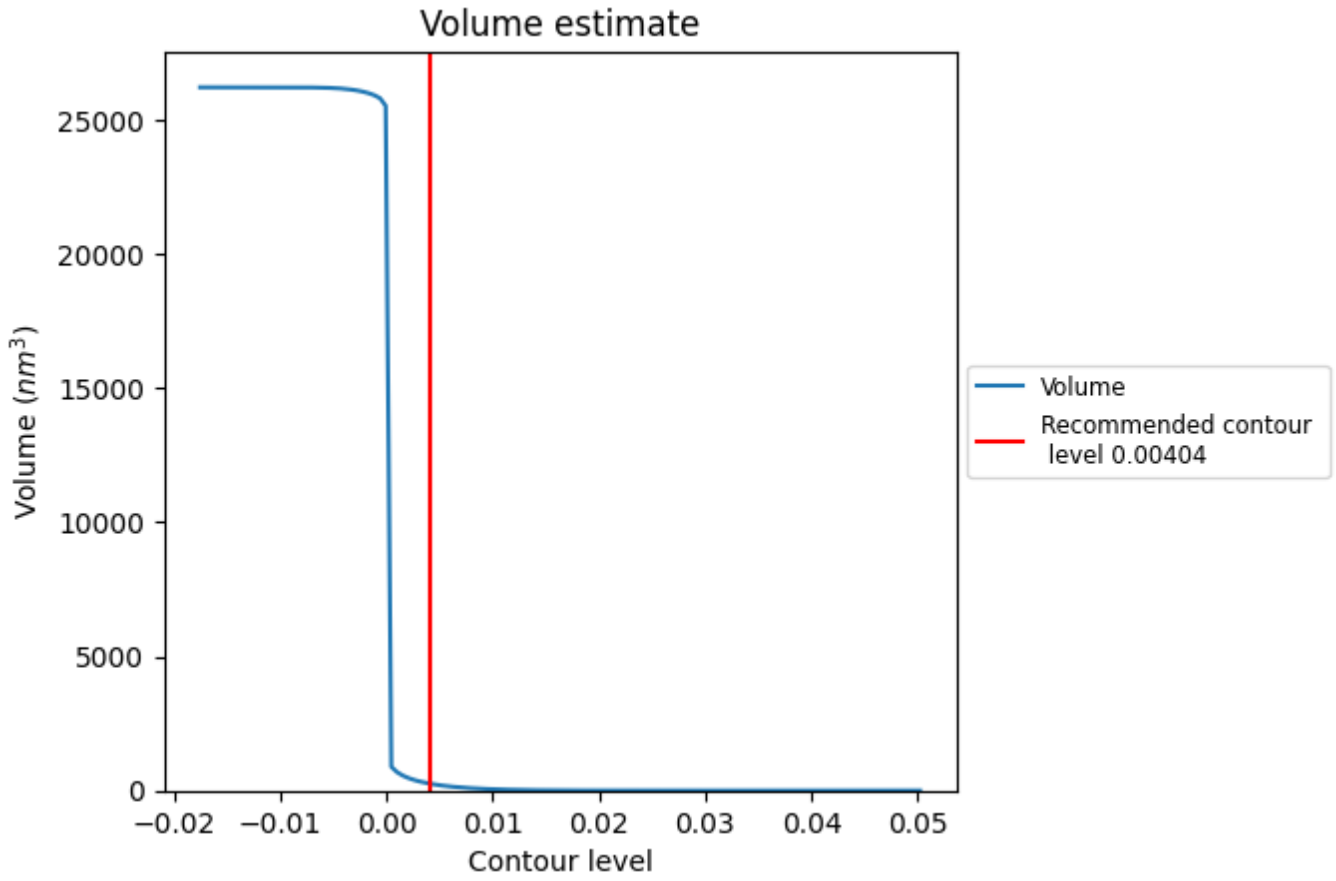
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

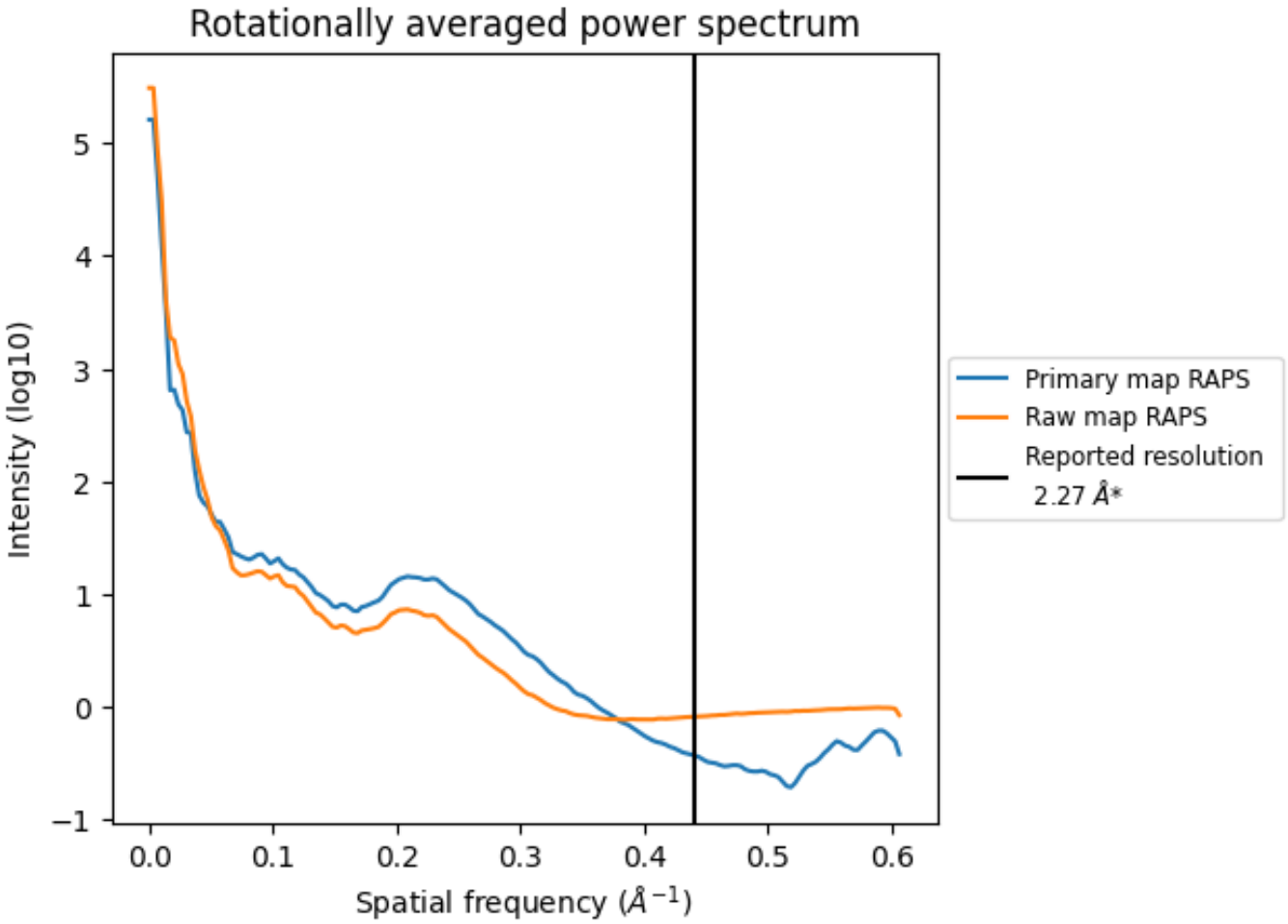
7.2 Volume estimate (i)



The volume at the recommended contour level is 261 nm^3; this corresponds to an approximate mass of 235 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

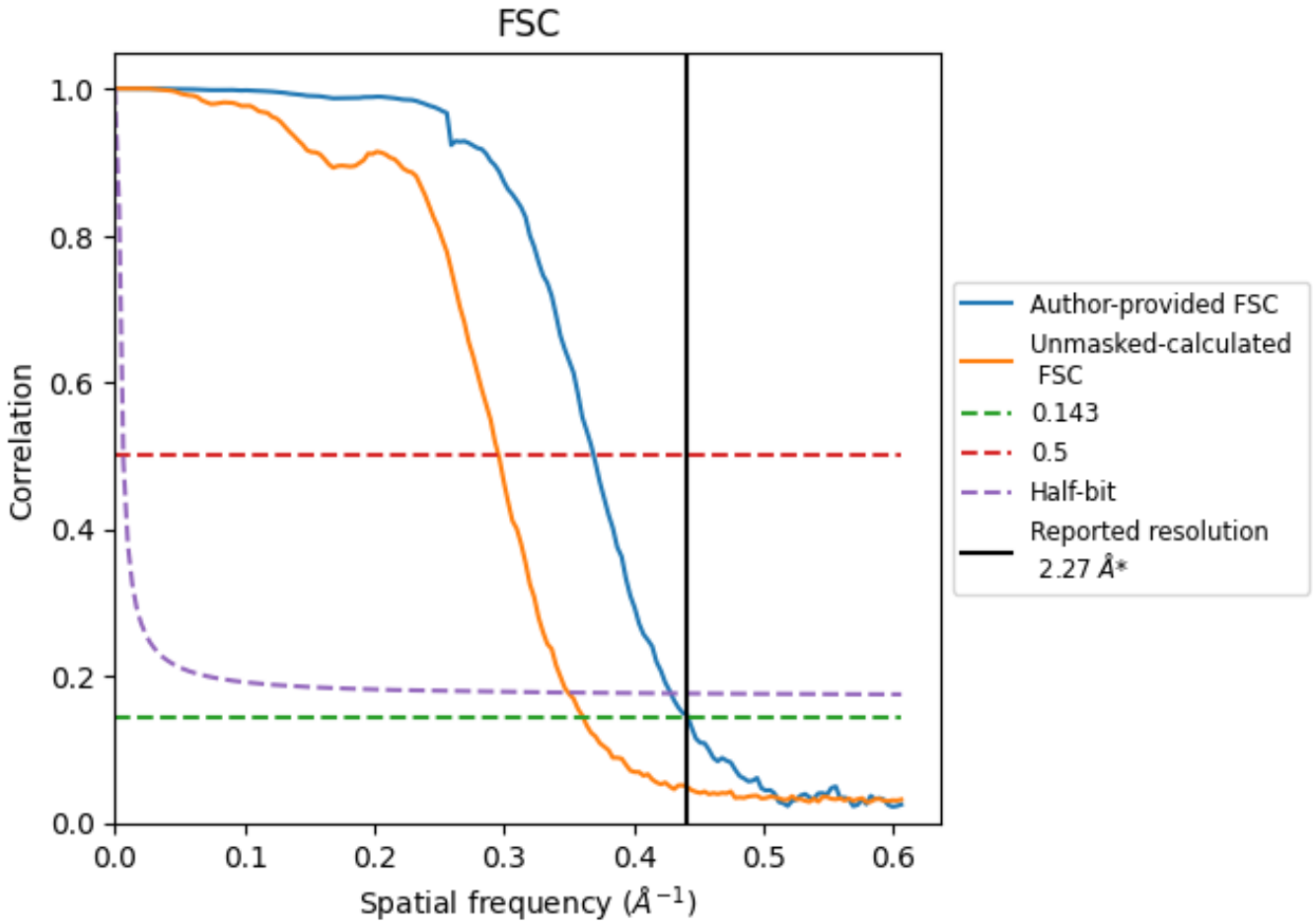


*Reported resolution corresponds to spatial frequency of 0.441 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.441 Å^{-1}

8.2 Resolution estimates (i)

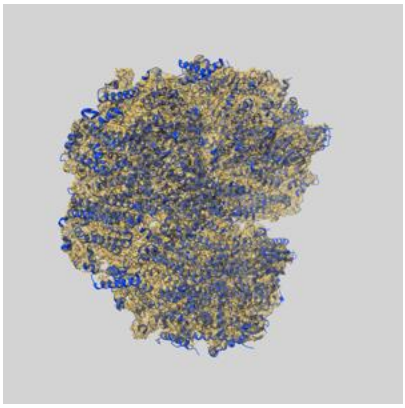
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.27	-	-
Author-provided FSC curve	2.26	2.71	2.33
Unmasked-calculated*	2.77	3.38	2.86

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.77 differs from the reported value 2.27 by more than 10 %

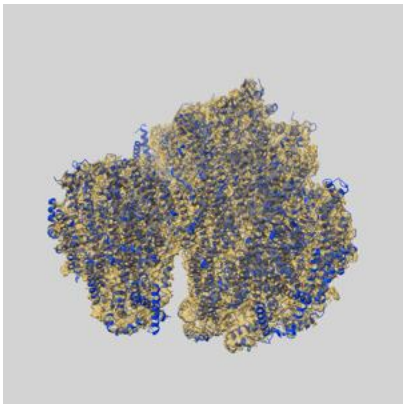
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-43525 and PDB model 8VU3. Per-residue inclusion information can be found in section 3 on page 38.

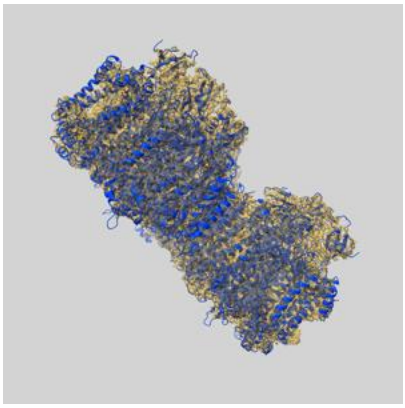
9.1 Map-model overlay



X



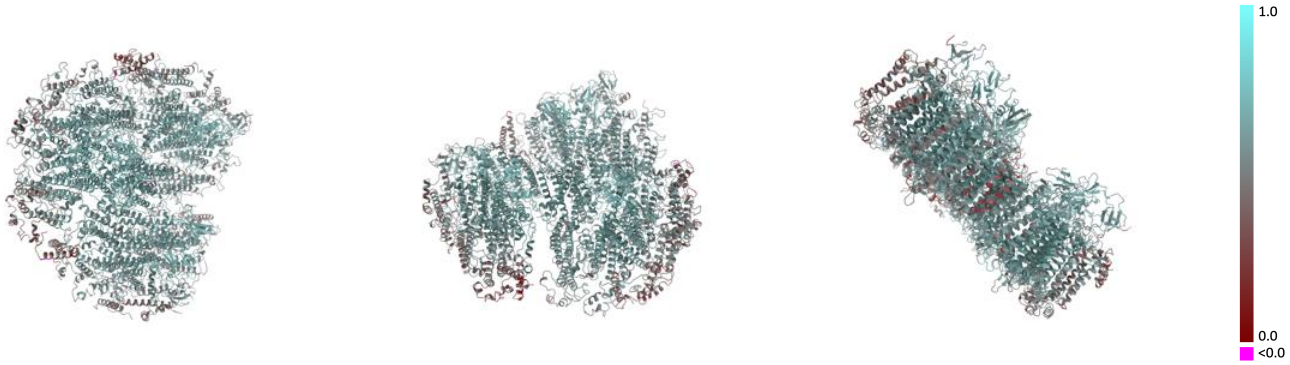
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.00404 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

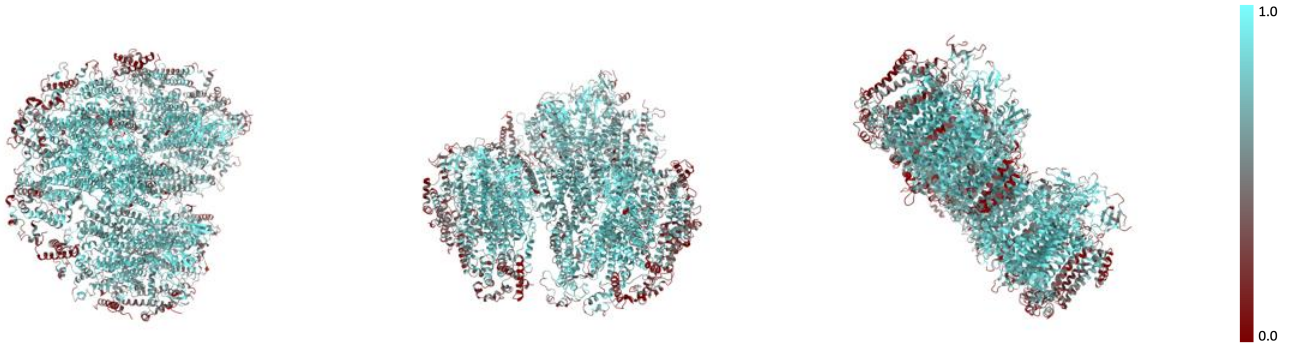
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

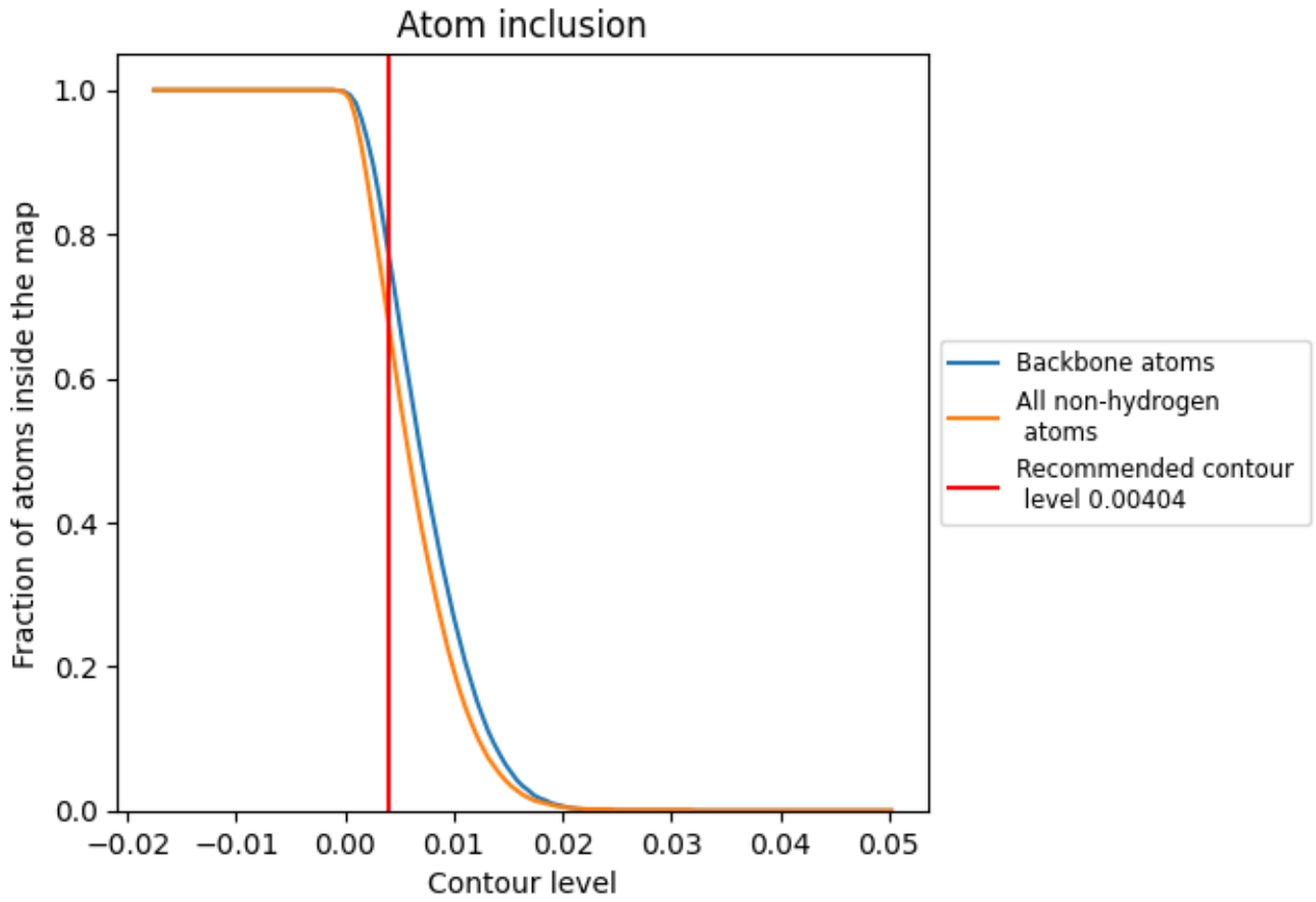
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.00404).

9.4 Atom inclusion (i)



At the recommended contour level, 77% of all backbone atoms, 67% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.00404) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6720	0.5780
A	0.6840	0.5640
B	0.7340	0.6050
C	0.8770	0.6690
D	0.6810	0.6160
E	0.5850	0.5720
F	0.3030	0.4580
G	0.7180	0.5850
H	0.7490	0.6090
I	0.7110	0.6300
J	0.3040	0.4590
K	0.1450	0.3370
L	0.7520	0.6490
M	0.4350	0.5210
N	0.9020	0.6730
O	0.7010	0.6180
P	0.6410	0.5910
Q	0.4090	0.4840
R	0.7590	0.6360
S	0.3500	0.4650
T	0.1470	0.3150
U	0.7410	0.6430
V	0.4640	0.5230
W	0.2430	0.4390
X	0.2020	0.4370
a	0.6820	0.5690
b	0.7270	0.5930
c	0.8880	0.6710
d	0.6740	0.6020
e	0.5640	0.5570
f	0.3000	0.4390
i	0.7160	0.6300
j	0.2980	0.4320
k	0.1380	0.3200
l	0.7440	0.6410

Continued on next page...

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Chain	Atom inclusion	Q-score
m	0.4040	0.5130
x	0.1900	0.4080