



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 10, 2020 – 12:56 AM BST

PDB ID : 5W78
Title : Human acyloxyacyl hydrolase (AOAH), proteolytically processed
Authors : Gorelik, A.; Illes, K.; Nagar, B.
Deposited on : 2017-06-19
Resolution : 2.27 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.13.1

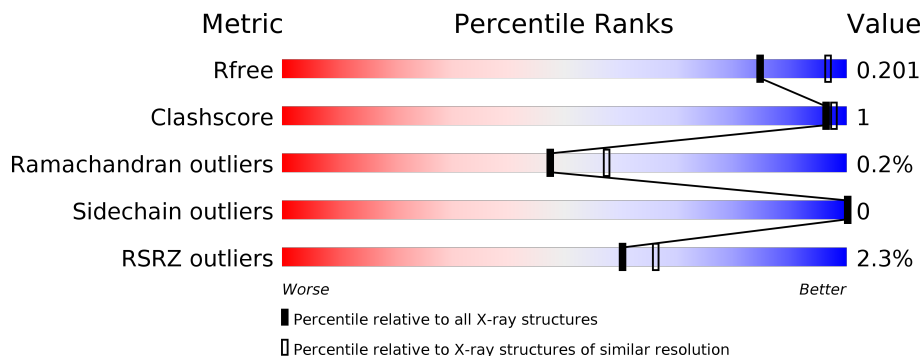
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	6980 (2.30-2.26)
Clashscore	141614	7711 (2.30-2.26)
Ramachandran outliers	138981	7597 (2.30-2.26)
Sidechain outliers	138945	7598 (2.30-2.26)
RSRZ outliers	127900	6849 (2.30-2.26)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	139	 6% 82% 15%
2	B	423	 % 94%
3	C	2	 100%
3	D	2	 100%
3	E	2	 100%

2 Entry composition i

There are 8 unique types of molecules in this entry. The entry contains 8833 atoms, of which 4314 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Acyloxyacyl hydrolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	118	1888	599	958	155	167	9	0	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	ASP	-	expression tag	UNP P28039
A	15	ARG	-	expression tag	UNP P28039
A	16	HIS	-	expression tag	UNP P28039
A	17	HIS	-	expression tag	UNP P28039
A	18	HIS	-	expression tag	UNP P28039
A	19	HIS	-	expression tag	UNP P28039
A	20	HIS	-	expression tag	UNP P28039
A	21	HIS	-	expression tag	UNP P28039
A	22	LYS	-	expression tag	UNP P28039
A	23	LEU	-	expression tag	UNP P28039

- Molecule 2 is a protein called Acyloxyacyl hydrolase.

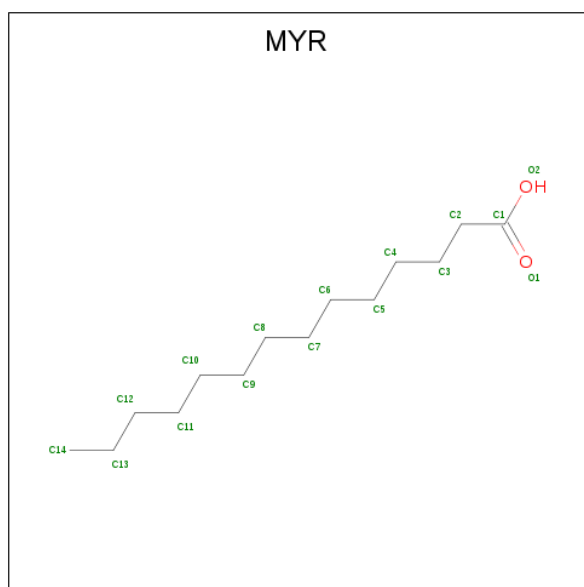
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	B	406	6430	2077	3167	574	595	17	0	0	0

- Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
3	C	2	Total	C	H	N	O	0	0	0
			55	16	27	2	10			
3	D	2	Total	C	H	N	O	0	0	0
			55	16	27	2	10			
3	E	2	Total	C	H	N	O	0	0	0
			55	16	27	2	10			

- Molecule 4 is MYRISTIC ACID (three-letter code: MYR) (formula: C₁₄H₂₈O₂) (labeled as "Ligand of Interest" by author).

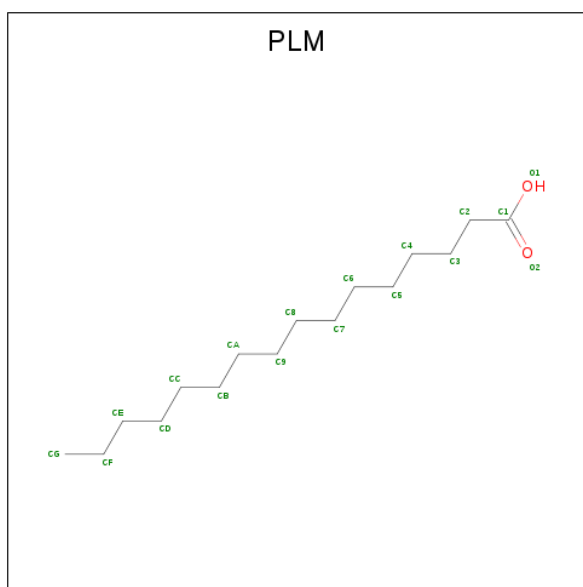


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			43	14	27	2		
4	A	1	Total	C	H	O	0	0
			43	14	27	2		

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by author).

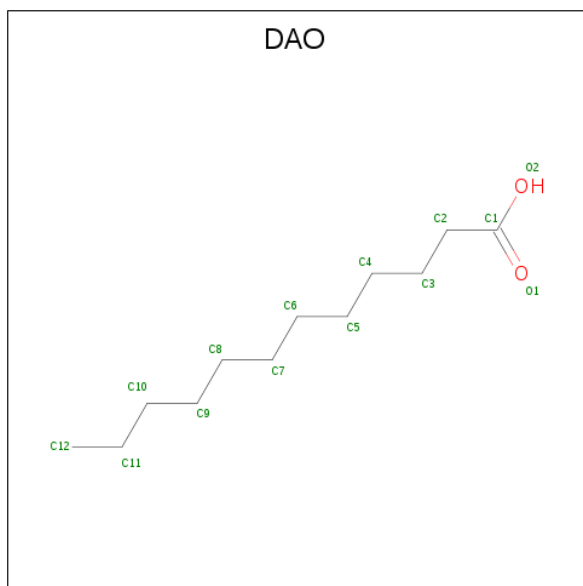
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	2	Total	Ca	0	0
			2	2		

- Molecule 6 is PALMITIC ACID (three-letter code: PLM) (formula: C₁₆H₃₂O₂) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
6	B	1	49	16	31	2	0	0

- Molecule 7 is LAURIC ACID (three-letter code: DAO) (formula: $C_{12}H_{24}O_2$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
7	B	1	37	12	23	2	0	0

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	27	Total 27	O 27	0	0
8	B	149	Total 149	O 149	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	50.40Å 87.36Å 146.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.66 – 2.27 47.66 – 2.27	Depositor EDS
% Data completeness (in resolution range)	71.3 (47.66-2.27) 86.9 (47.66-2.27)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.65 (at 2.27Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155)	Depositor
R, R_{free}	0.166 , 0.201 0.167 , 0.201	Depositor DCC
R_{free} test set	1402 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	30.0	Xtrriage
Anisotropy	0.038	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 43.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8833	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.33% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: DAO, CA, MYR, NAG, PLM

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	0.31	0/948	0.44	0/1284
2	B	0.33	0/3355	0.48	0/4553
All	All	0.32	0/4303	0.47	0/5837

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	930	958	958	2	1
2	B	3263	3167	3165	4	1
3	C	28	27	25	0	0
3	D	28	27	25	0	0
3	E	28	27	25	1	0
4	A	32	54	54	3	0
5	B	2	0	0	0	0
6	B	18	31	31	0	0
7	B	14	23	23	2	0
8	A	27	0	0	0	0
8	B	149	0	0	0	0
All	All	4519	4314	4306	9	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

All (9) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:203:MYR:H32	7:B:608:DAO:H22	1.92	0.51
2:B:326:ARG:NH2	2:B:548:GLN:OE1	2.44	0.50
1:A:146:LYS:HE2	1:A:148:PRO:HG3	1.97	0.46
2:B:316:GLU:OE1	2:B:316:GLU:N	2.48	0.46
4:A:203:MYR:H41	7:B:608:DAO:H42	1.98	0.46
1:A:43:GLY:HA3	4:A:203:MYR:H51	1.98	0.45
2:B:269:HIS:HB3	2:B:298:TRP:CD1	2.54	0.42
2:B:217:ARG:HA	2:B:361:ASP:HA	2.01	0.42
3:E:1:NAG:O4	3:E:2:NAG:C7	2.69	0.41

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:TYR:OH	2:B:208:ASP:OD1[4_575]	2.11	0.09

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 X-ray entries followed by that with respect to entries of similar resolution.

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	116/139 (84%)	115 (99%)	1 (1%)	0	100	100
2	B	402/423 (95%)	386 (96%)	15 (4%)	1 (0%)	47	57
All	All	518/562 (92%)	501 (97%)	16 (3%)	1 (0%)	47	57

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	372	GLY

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 X-ray entries followed by that with respect to entries of similar resolution.

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	109/129 (84%)	109 (100%)	0	100	100
2	B	360/376 (96%)	360 (100%)	0	100	100
All	All	469/505 (93%)	469 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	279	GLN
2	B	510	GLN

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](#)

6 monosaccharides are modelled in this entry.

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$
3	NAG	C	1	1,3	14,14,15	1.38	1 (7%)	17,19,21	1.11	1 (5%)
3	NAG	C	2	3	14,14,15	0.47	0	17,19,21	1.48	3 (17%)
3	NAG	D	1	3,2	14,14,15	0.31	0	17,19,21	0.88	1 (5%)
3	NAG	D	2	3	14,14,15	0.90	1 (7%)	17,19,21	0.71	0
3	NAG	E	1	3,2	14,14,15	0.61	1 (7%)	17,19,21	0.80	1 (5%)
3	NAG	E	2	3	14,14,15	0.92	1 (7%)	17,19,21	0.98	1 (5%)

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
3	NAG	C	1	1,3	-	2/6/23/26	0/1/1/1
3	NAG	C	2	3	-	3/6/23/26	0/1/1/1
3	NAG	D	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	D	2	3	-	2/6/23/26	0/1/1/1
3	NAG	E	1	3,2	-	0/6/23/26	0/1/1/1
3	NAG	E	2	3	-	2/6/23/26	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	1	NAG	O5-C1	-4.83	1.36	1.43
3	D	2	NAG	O5-C1	-3.23	1.38	1.43
3	E	2	NAG	O5-C1	-2.98	1.39	1.43
3	E	1	NAG	O5-C1	-2.12	1.40	1.43

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2	NAG	C1-O5-C5	3.56	117.02	112.19
3	C	2	NAG	C3-C4-C5	2.88	115.37	110.24
3	E	2	NAG	C3-C4-C5	2.32	114.37	110.24
3	D	1	NAG	C1-O5-C5	2.20	115.17	112.19
3	E	1	NAG	C1-O5-C5	2.19	115.16	112.19
3	C	1	NAG	C1-O5-C5	-2.12	109.32	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2	NAG	C1-C2-N2	2.08	114.03	110.49

There are no chirality outliers.

All (11) torsion outliers are listed below:

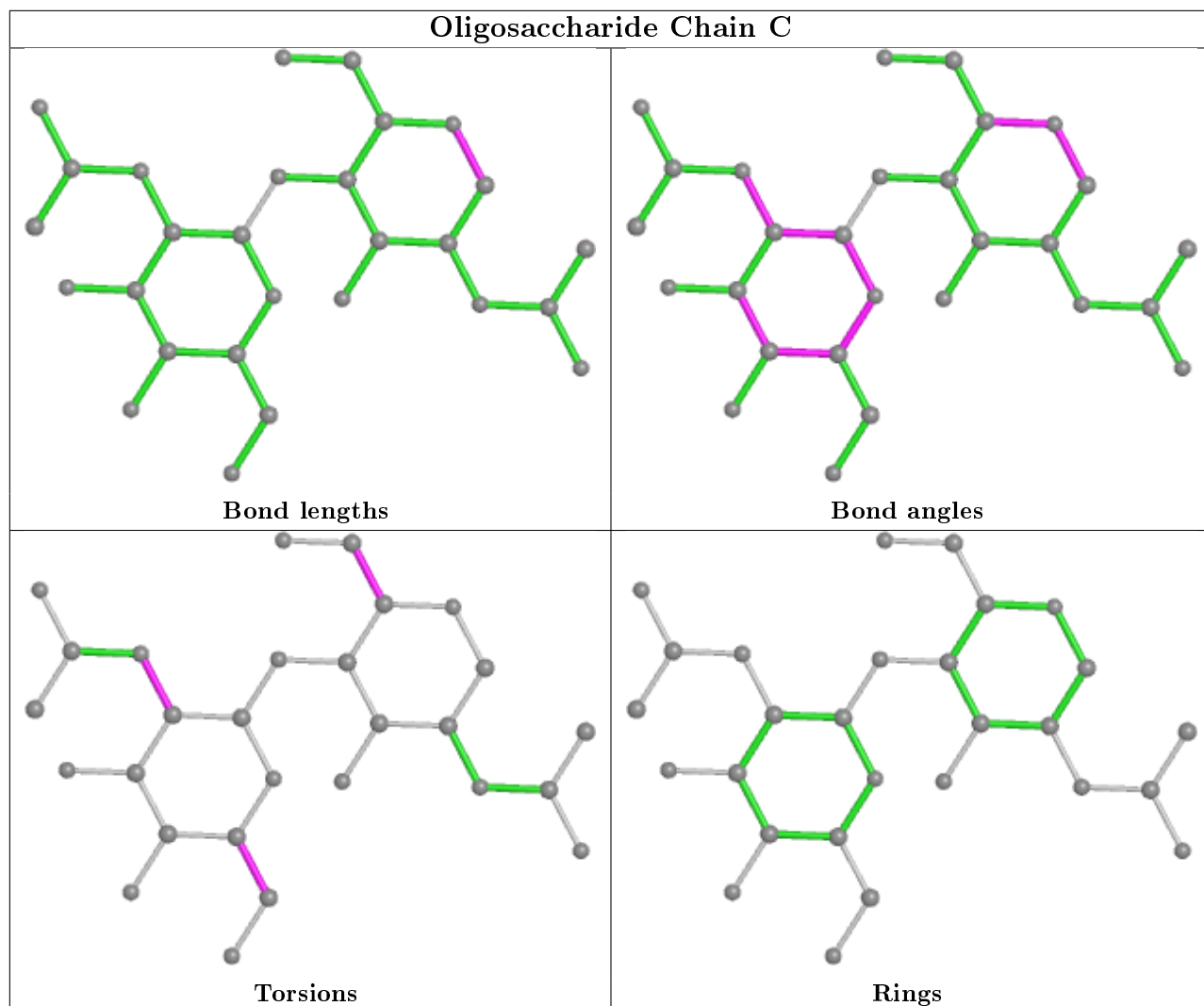
Mol	Chain	Res	Type	Atoms
3	D	2	NAG	O5-C5-C6-O6
3	D	2	NAG	C4-C5-C6-O6
3	E	2	NAG	C4-C5-C6-O6
3	C	2	NAG	O5-C5-C6-O6
3	C	1	NAG	O5-C5-C6-O6
3	E	2	NAG	O5-C5-C6-O6
3	C	2	NAG	C4-C5-C6-O6
3	C	1	NAG	C4-C5-C6-O6
3	D	1	NAG	C4-C5-C6-O6
3	D	1	NAG	O5-C5-C6-O6
3	C	2	NAG	C3-C2-N2-C7

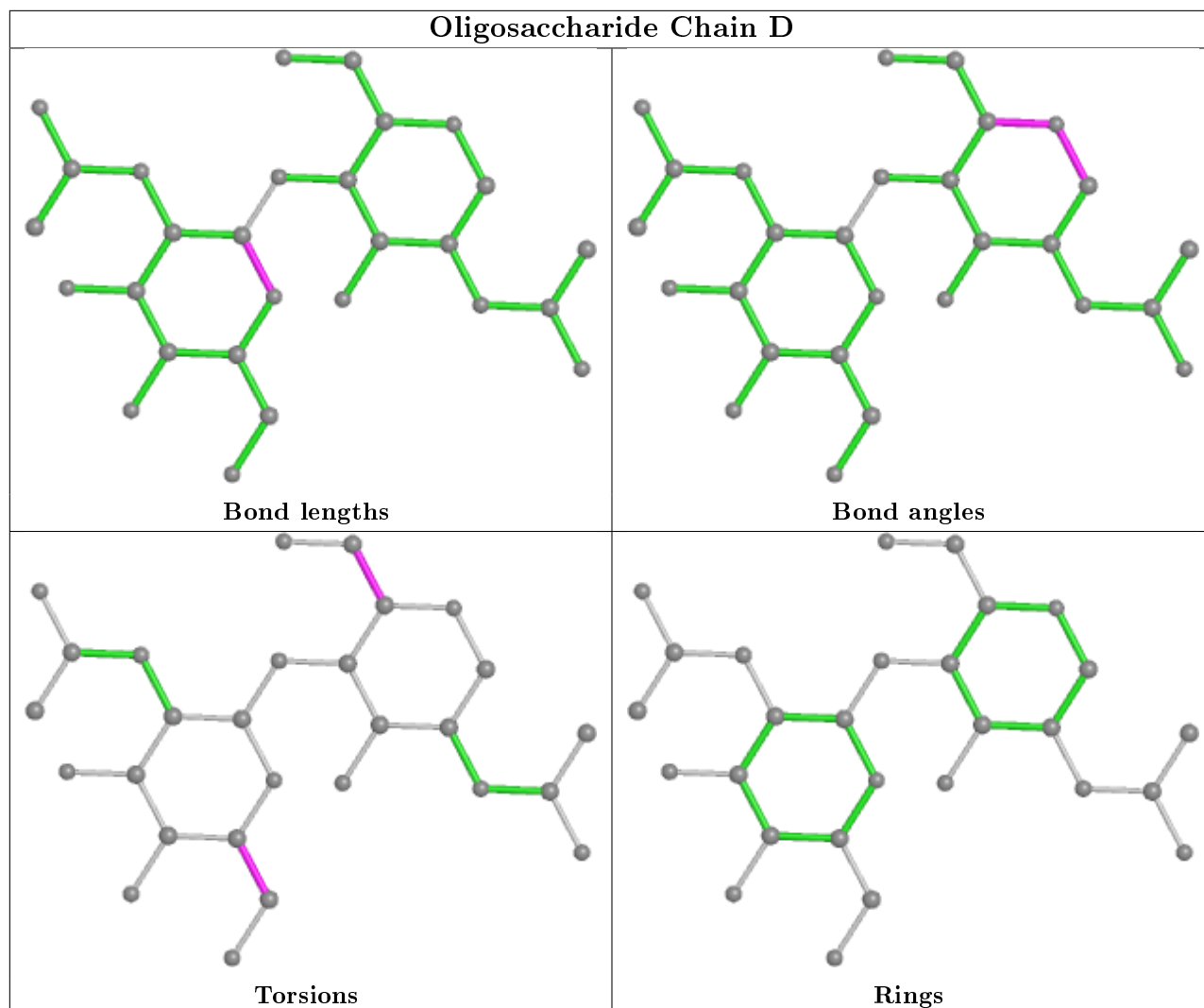
There are no ring outliers.

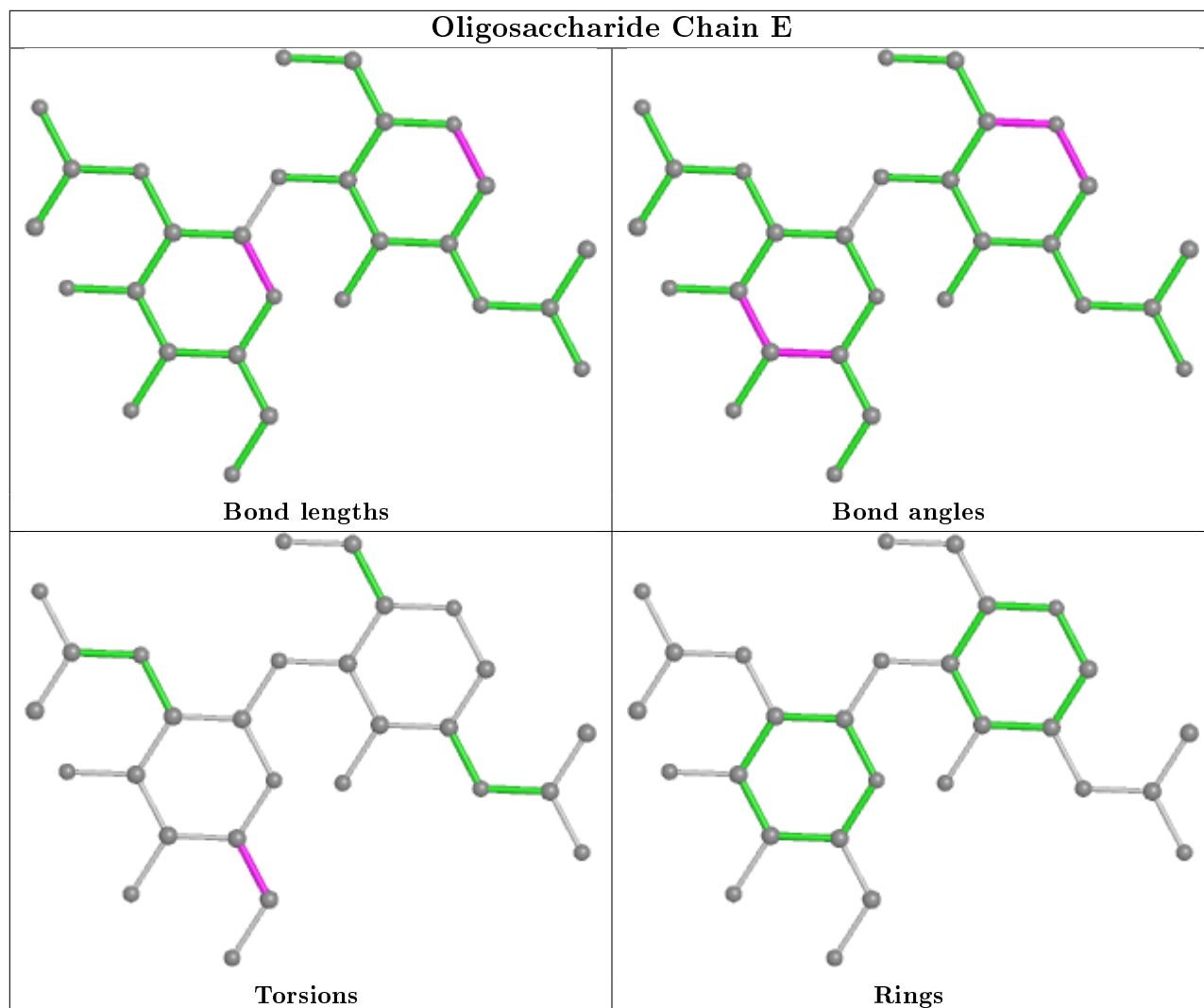
2 monomers are involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	E	2	NAG	1	0
3	E	1	NAG	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.







5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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
6	PLM	B	607	-	14,17,17	0.27	0	13,17,17	0.47	0
4	MYR	A	203	-	12,15,15	0.33	0	11,15,15	0.54	0
7	DAO	B	608	-	10,13,13	0.24	0	9,13,13	1.00	0
4	MYR	A	204	-	12,15,15	0.20	0	11,15,15	0.78	0

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
6	PLM	B	607	-	-	7/13/15/15	-
4	MYR	A	203	-	-	8/11/13/13	-
7	DAO	B	608	-	-	5/9/11/11	-
4	MYR	A	204	-	-	5/11/13/13	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (25) torsion outliers are listed below:

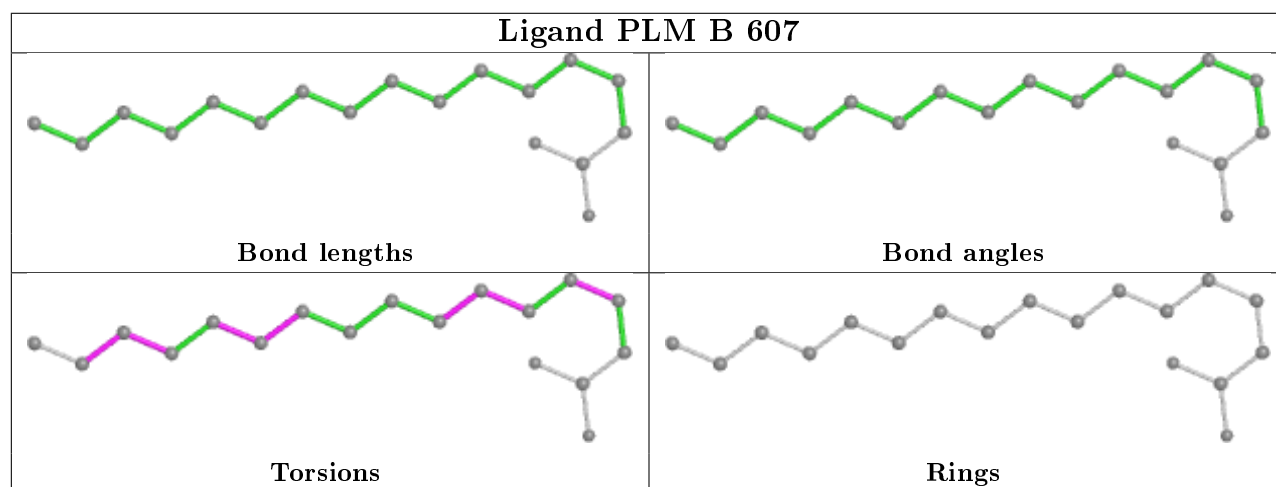
Mol	Chain	Res	Type	Atoms
7	B	608	DAO	C1-C2-C3-C4
4	A	203	MYR	C1-C2-C3-C4
4	A	203	MYR	C5-C6-C7-C8
4	A	203	MYR	C11-C10-C9-C8
7	B	608	DAO	C4-C5-C6-C7
4	A	204	MYR	C11-C10-C9-C8
6	B	607	PLM	C5-C6-C7-C8
6	B	607	PLM	C4-C5-C6-C7
6	B	607	PLM	C2-C3-C4-C5
6	B	607	PLM	CC-CD-CE-CF
7	B	608	DAO	C2-C3-C4-C5
4	A	203	MYR	C10-C11-C12-C13
4	A	203	MYR	C3-C4-C5-C6
6	B	607	PLM	C9-CA-CB-CC
7	B	608	DAO	C11-C10-C9-C8
6	B	607	PLM	CA-CB-CC-CD
4	A	203	MYR	C4-C5-C6-C7
4	A	203	MYR	C11-C12-C13-C14
4	A	204	MYR	C4-C5-C6-C7
7	B	608	DAO	C6-C7-C8-C9
4	A	203	MYR	C2-C3-C4-C5
6	B	607	PLM	CD-CE-CF-CG
4	A	204	MYR	C7-C8-C9-C10
4	A	204	MYR	C10-C11-C12-C13
4	A	204	MYR	C2-C3-C4-C5

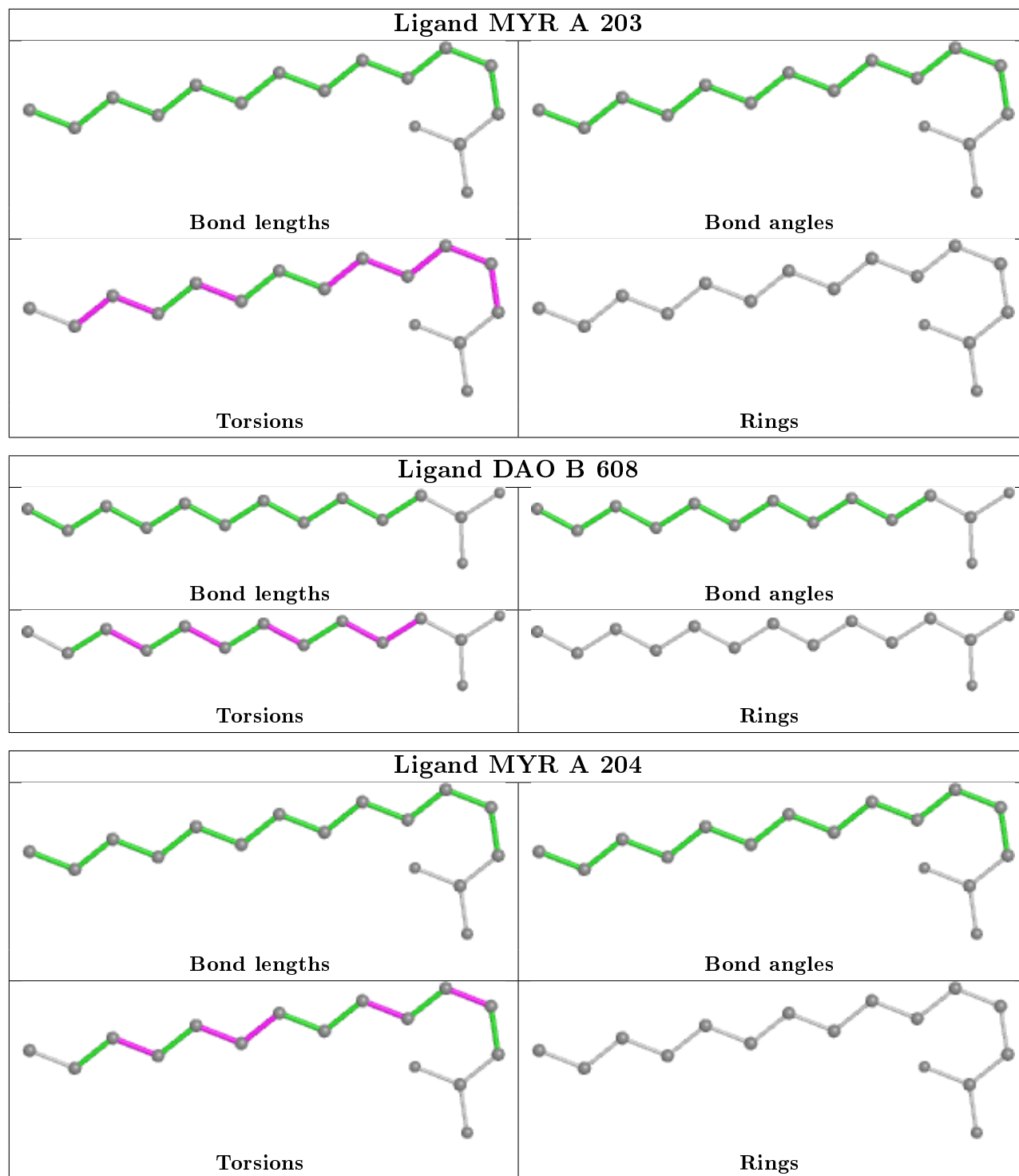
There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	203	MYR	3	0
7	B	608	DAO	2	0

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 than 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.





5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	118/139 (84%)	0.36	8 (6%) 17 21	24, 37, 79, 93	0
2	B	406/423 (95%)	0.03	4 (0%) 82 86	17, 31, 55, 78	0
All	All	524/562 (93%)	0.10	12 (2%) 60 66	17, 32, 62, 93	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	118	THR	5.4
1	A	147	SER	4.0
2	B	161	SER	3.6
1	A	146	LYS	3.5
1	A	129	PRO	3.0
2	B	180	VAL	3.0
1	A	130	LYS	2.8
1	A	152	TYR	2.5
1	A	119	GLY	2.2
2	B	314	ILE	2.2
1	A	131	GLU	2.0
2	B	380	SER	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

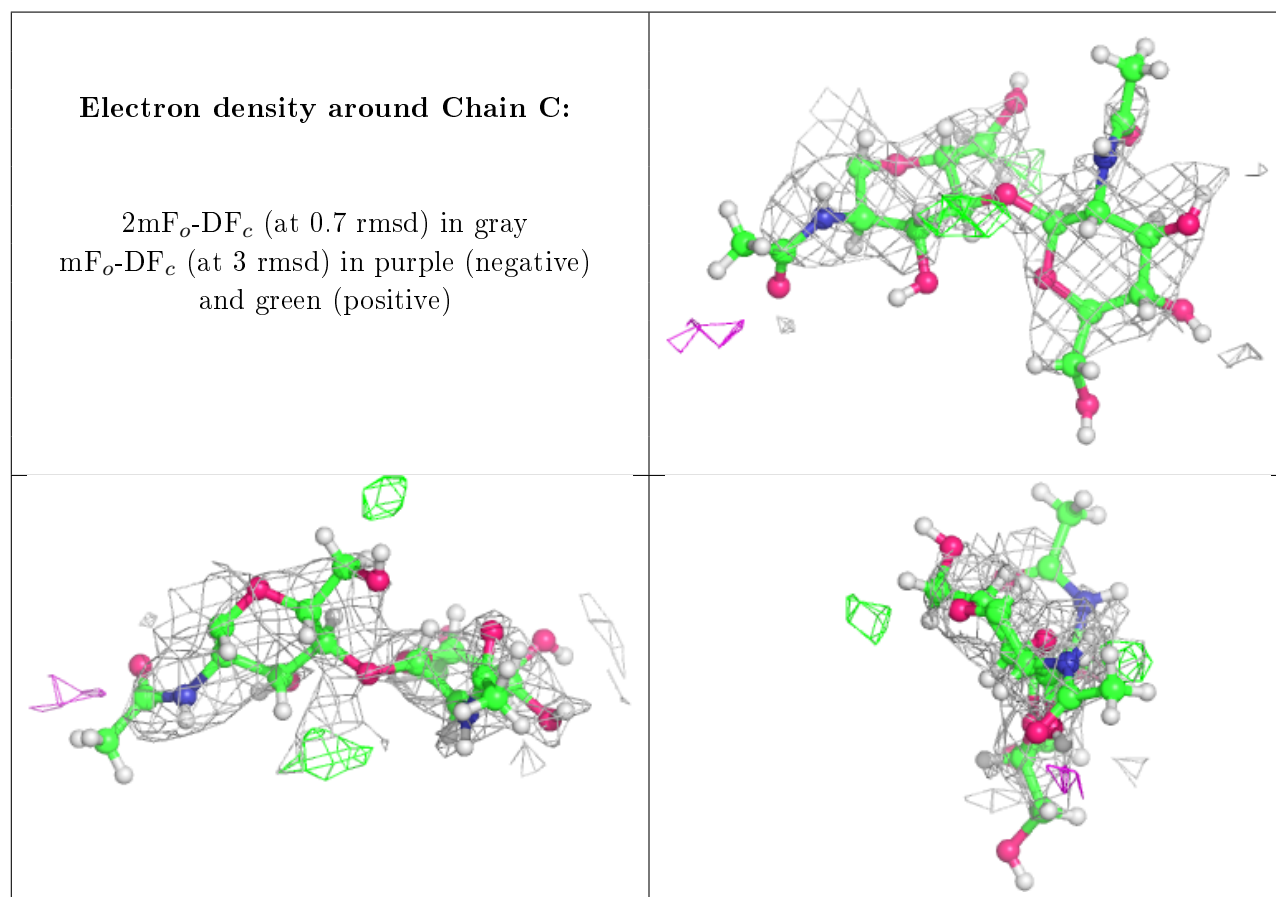
There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

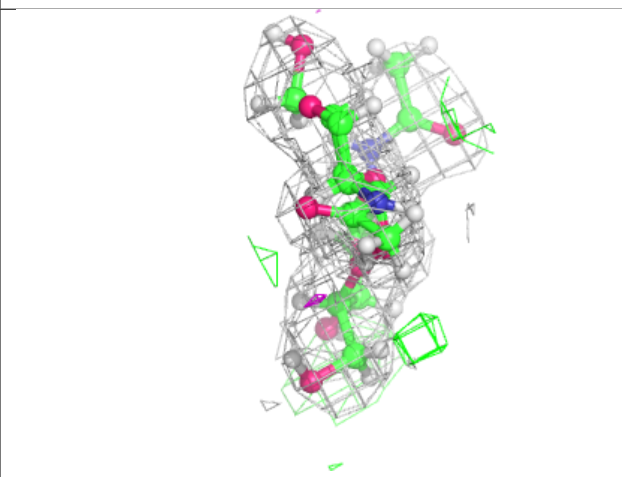
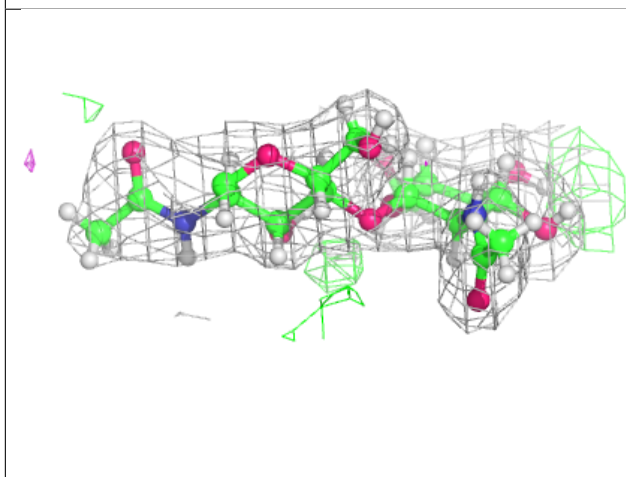
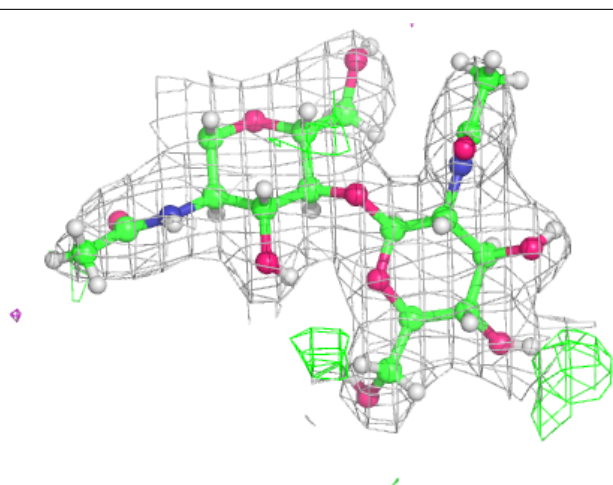
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAG	E	2	14/15	0.72	0.29	63,79,99,101	0
3	NAG	C	2	14/15	0.78	0.33	84,100,113,115	0
3	NAG	C	1	14/15	0.79	0.28	71,87,105,110	0
3	NAG	E	1	14/15	0.86	0.23	56,67,80,87	0
3	NAG	D	2	14/15	0.92	0.12	35,45,61,63	0
3	NAG	D	1	14/15	0.96	0.13	25,32,42,53	0

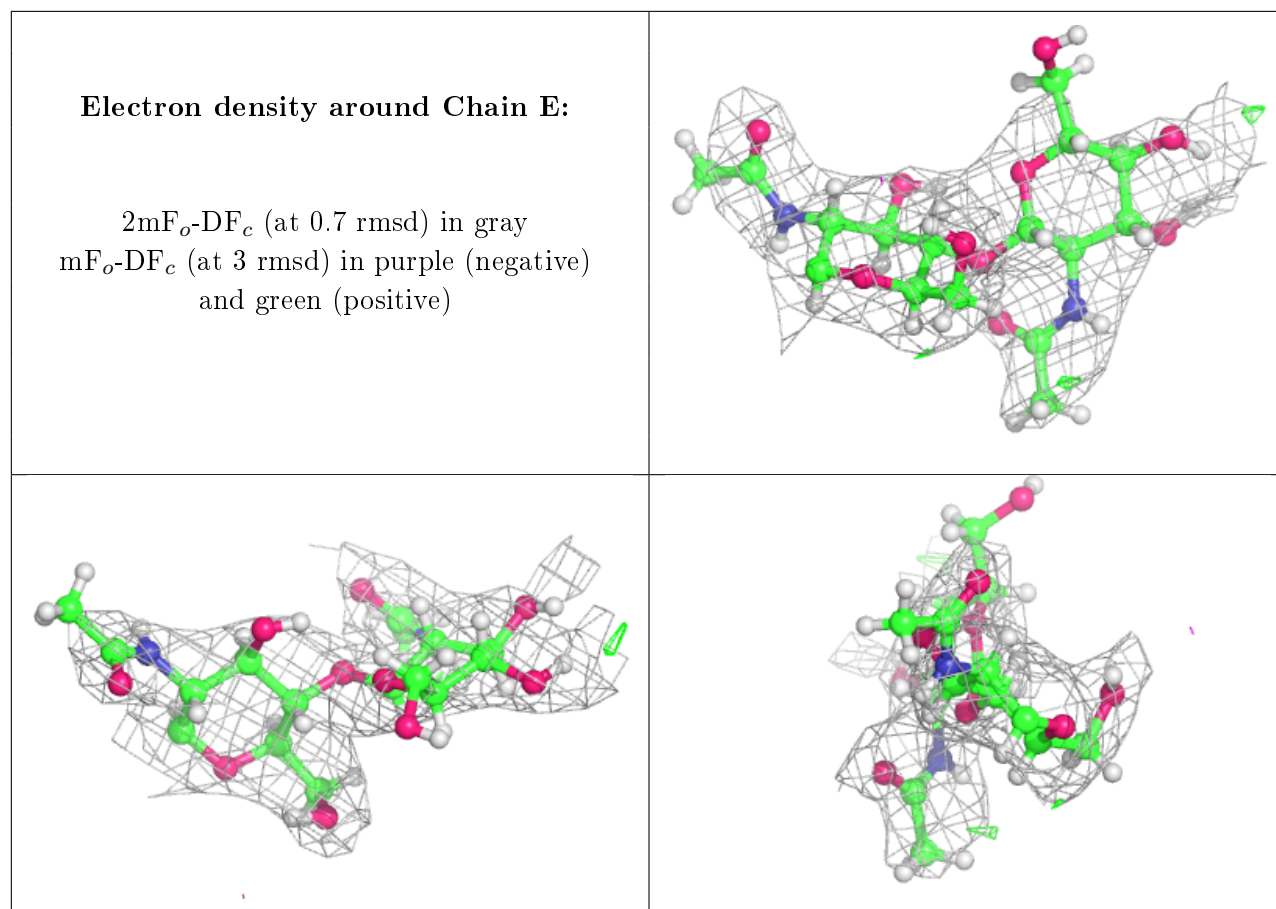
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



Electron density around Chain D:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



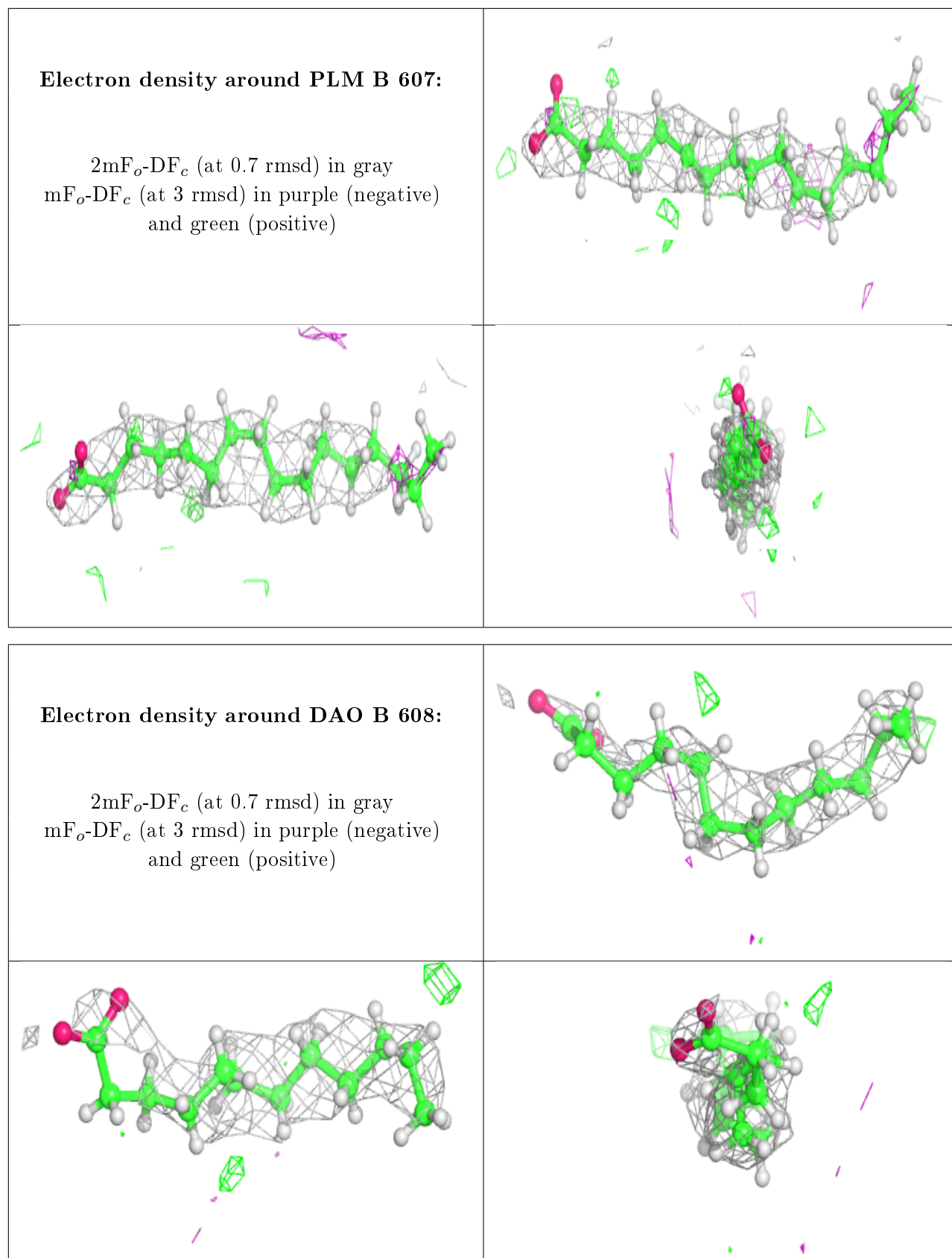


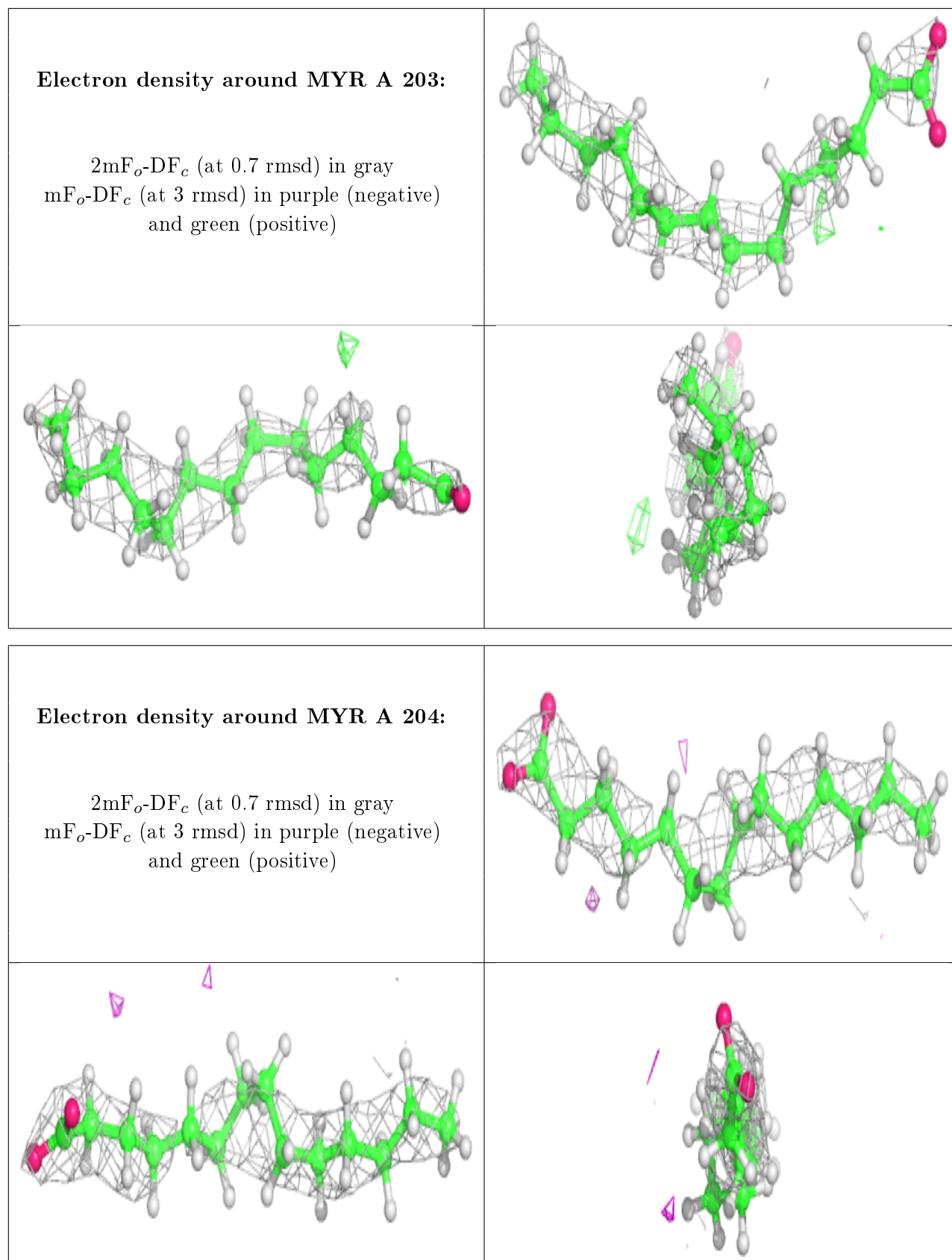
6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	PLM	B	607	18/18	0.72	0.24	42,55,66,69	0
7	DAO	B	608	14/14	0.84	0.21	45,56,78,85	0
4	MYR	A	203	16/16	0.87	0.35	40,58,71,72	0
4	MYR	A	204	16/16	0.88	0.37	38,58,71,71	0
5	CA	B	601	1/1	0.98	0.05	43,43,43,43	0
5	CA	B	602	1/1	0.99	0.17	20,20,20,20	0

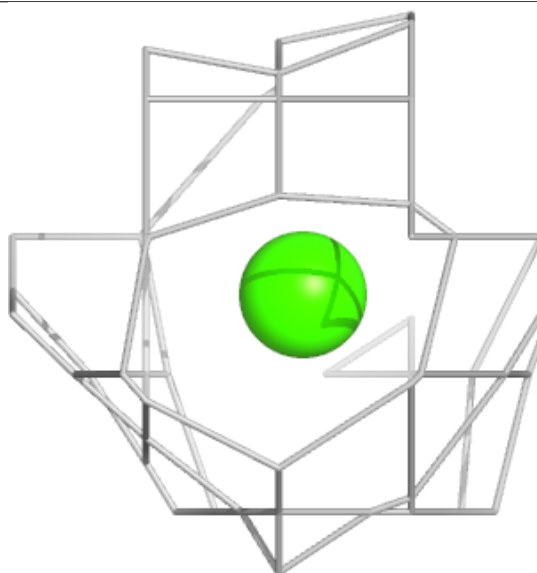
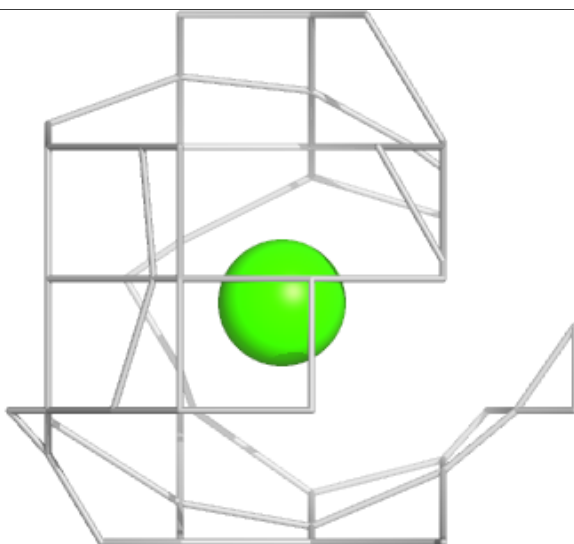
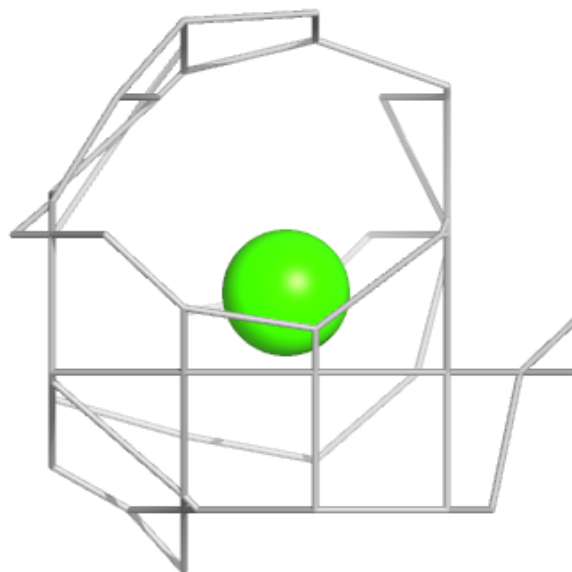
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

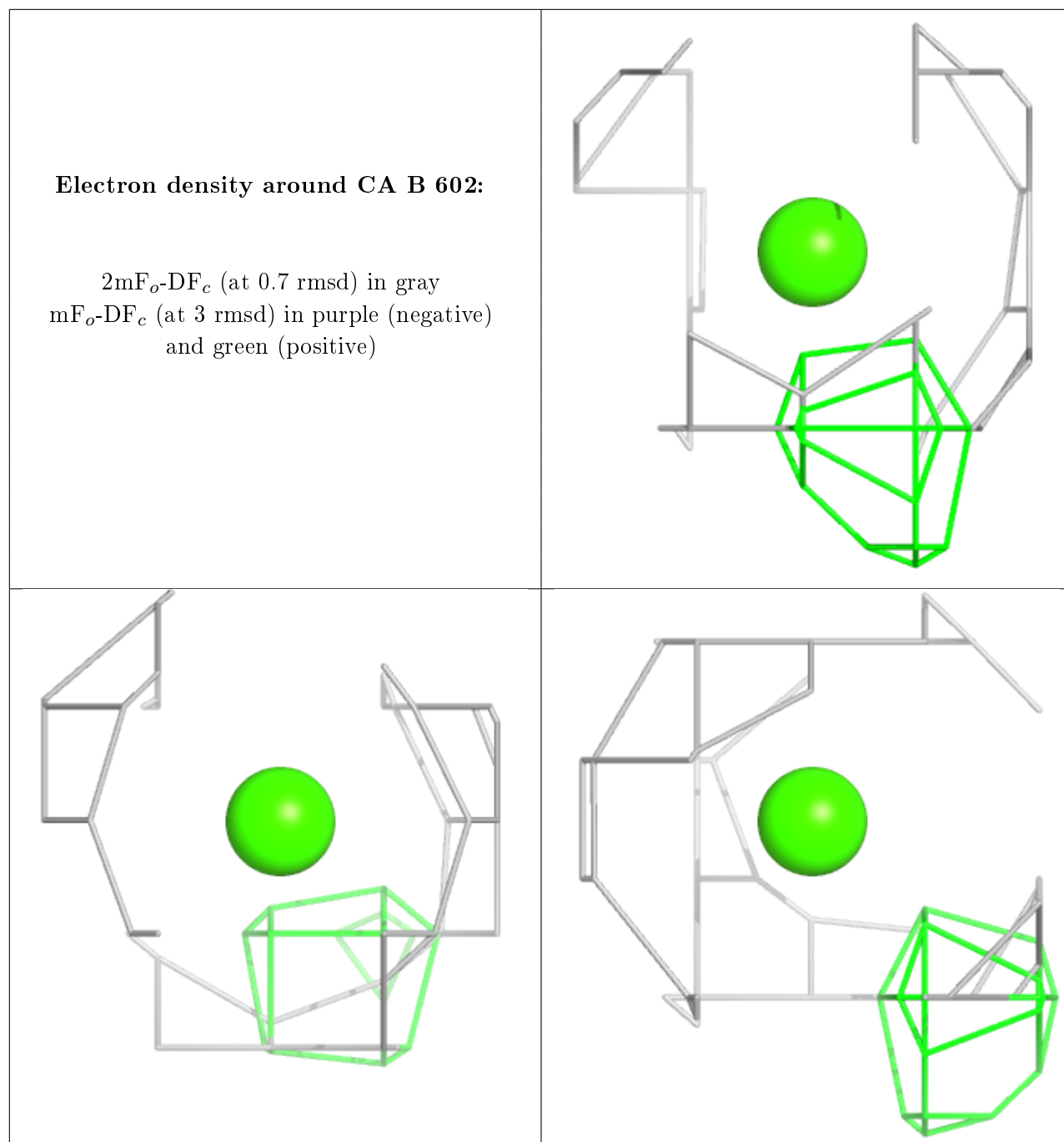




Electron density around CA B 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.