



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 13, 2023 – 09:42 PM JST

PDB ID : 5Y2Z
Title : Crystal structure of human LGI1 EPTP-ADAM22 complex
Authors : Yamagata, A.; Fukai, S.
Deposited on : 2017-07-27
Resolution : 2.67 Å(reported)

This is a wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

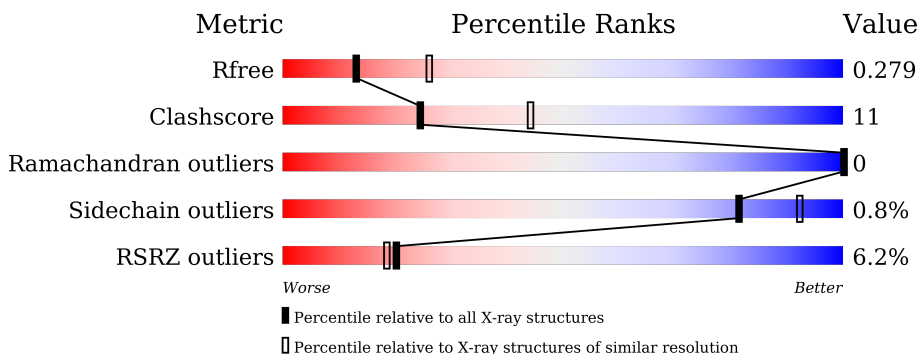
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.67 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	3863 (2.70-2.66)
Clashscore	141614	4210 (2.70-2.66)
Ramachandran outliers	138981	4141 (2.70-2.66)
Sidechain outliers	138945	4141 (2.70-2.66)
RSRZ outliers	127900	3780 (2.70-2.66)

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 of 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	504	
1	C	504	
1	E	504	
1	G	504	
1	I	504	
1	K	504	

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Mol	Chain	Length	Quality of chain
2	B	347	 % 64% 29% 5%
2	D	347	 % 68% 26% 5%
2	F	347	 % 68% 27% 5%
2	H	347	 % 65% 30% 5%
2	J	347	 2% 67% 27% 5%
2	L	347	 % 67% 27% 5%
3	M	2	 50% 50%
3	O	2	 100%
3	Q	2	 100%
3	T	2	 100%
4	N	4	 50% 50%
4	S	4	 75% 25%
5	P	3	 67% 33%
5	U	3	 67% 33%
5	V	3	 67% 33%
6	R	2	 100%

2 Entry composition i

There are 9 unique types of molecules in this entry. The entry contains 39417 atoms, of which 0 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 Disintegrin and metalloproteinase domain-containing protein 22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	482	Total 3696	C 2283	N 637	O 725	S 51	0	0	0
1	C	473	Total 3623	C 2238	N 624	O 710	S 51	0	0	0
1	E	467	Total 3575	C 2207	N 615	O 702	S 51	0	0	0
1	G	462	Total 3537	C 2185	N 609	O 692	S 51	0	0	0
1	I	481	Total 3688	C 2281	N 633	O 723	S 51	0	0	0
1	K	486	Total 3728	C 2303	N 643	O 731	S 51	0	0	0

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	730	LYS	-	expression tag	UNP Q9P0K1
A	731	HIS	-	expression tag	UNP Q9P0K1
A	732	HIS	-	expression tag	UNP Q9P0K1
A	733	HIS	-	expression tag	UNP Q9P0K1
A	734	HIS	-	expression tag	UNP Q9P0K1
A	735	HIS	-	expression tag	UNP Q9P0K1
A	736	HIS	-	expression tag	UNP Q9P0K1
C	730	LYS	-	expression tag	UNP Q9P0K1
C	731	HIS	-	expression tag	UNP Q9P0K1
C	732	HIS	-	expression tag	UNP Q9P0K1
C	733	HIS	-	expression tag	UNP Q9P0K1
C	734	HIS	-	expression tag	UNP Q9P0K1
C	735	HIS	-	expression tag	UNP Q9P0K1
C	736	HIS	-	expression tag	UNP Q9P0K1
E	730	LYS	-	expression tag	UNP Q9P0K1
E	731	HIS	-	expression tag	UNP Q9P0K1

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Chain	Residue	Modelled	Actual	Comment	Reference
E	732	HIS	-	expression tag	UNP Q9P0K1
E	733	HIS	-	expression tag	UNP Q9P0K1
E	734	HIS	-	expression tag	UNP Q9P0K1
E	735	HIS	-	expression tag	UNP Q9P0K1
E	736	HIS	-	expression tag	UNP Q9P0K1
G	730	LYS	-	expression tag	UNP Q9P0K1
G	731	HIS	-	expression tag	UNP Q9P0K1
G	732	HIS	-	expression tag	UNP Q9P0K1
G	733	HIS	-	expression tag	UNP Q9P0K1
G	734	HIS	-	expression tag	UNP Q9P0K1
G	735	HIS	-	expression tag	UNP Q9P0K1
G	736	HIS	-	expression tag	UNP Q9P0K1
I	730	LYS	-	expression tag	UNP Q9P0K1
I	731	HIS	-	expression tag	UNP Q9P0K1
I	732	HIS	-	expression tag	UNP Q9P0K1
I	733	HIS	-	expression tag	UNP Q9P0K1
I	734	HIS	-	expression tag	UNP Q9P0K1
I	735	HIS	-	expression tag	UNP Q9P0K1
I	736	HIS	-	expression tag	UNP Q9P0K1
K	730	LYS	-	expression tag	UNP Q9P0K1
K	731	HIS	-	expression tag	UNP Q9P0K1
K	732	HIS	-	expression tag	UNP Q9P0K1
K	733	HIS	-	expression tag	UNP Q9P0K1
K	734	HIS	-	expression tag	UNP Q9P0K1
K	735	HIS	-	expression tag	UNP Q9P0K1
K	736	HIS	-	expression tag	UNP Q9P0K1

- Molecule 2 is a protein called Leucine-rich glioma-inactivated protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	328	Total	C	N	O	S	0	0	0
			2708	1753	450	498	7			
2	D	328	Total	C	N	O	S	0	0	0
			2708	1753	450	498	7			
2	F	328	Total	C	N	O	S	0	0	0
			2708	1753	450	498	7			
2	H	329	Total	C	N	O	S	0	0	0
			2716	1759	451	499	7			
2	J	328	Total	C	N	O	S	0	0	0
			2708	1753	450	498	7			
2	L	328	Total	C	N	O	S	0	0	0
			2708	1753	450	498	7			

There are 78 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	218	ASP	-	expression tag	UNP O95970
B	219	ALA	-	expression tag	UNP O95970
B	220	ALA	-	expression tag	UNP O95970
B	221	GLN	-	expression tag	UNP O95970
B	222	PRO	-	expression tag	UNP O95970
B	223	ALA	-	expression tag	UNP O95970
B	558	LYS	-	expression tag	UNP O95970
B	559	HIS	-	expression tag	UNP O95970
B	560	HIS	-	expression tag	UNP O95970
B	561	HIS	-	expression tag	UNP O95970
B	562	HIS	-	expression tag	UNP O95970
B	563	HIS	-	expression tag	UNP O95970
B	564	HIS	-	expression tag	UNP O95970
D	218	ASP	-	expression tag	UNP O95970
D	219	ALA	-	expression tag	UNP O95970
D	220	ALA	-	expression tag	UNP O95970
D	221	GLN	-	expression tag	UNP O95970
D	222	PRO	-	expression tag	UNP O95970
D	223	ALA	-	expression tag	UNP O95970
D	558	LYS	-	expression tag	UNP O95970
D	559	HIS	-	expression tag	UNP O95970
D	560	HIS	-	expression tag	UNP O95970
D	561	HIS	-	expression tag	UNP O95970
D	562	HIS	-	expression tag	UNP O95970
D	563	HIS	-	expression tag	UNP O95970
D	564	HIS	-	expression tag	UNP O95970
F	218	ASP	-	expression tag	UNP O95970
F	219	ALA	-	expression tag	UNP O95970
F	220	ALA	-	expression tag	UNP O95970
F	221	GLN	-	expression tag	UNP O95970
F	222	PRO	-	expression tag	UNP O95970
F	223	ALA	-	expression tag	UNP O95970
F	558	LYS	-	expression tag	UNP O95970
F	559	HIS	-	expression tag	UNP O95970
F	560	HIS	-	expression tag	UNP O95970
F	561	HIS	-	expression tag	UNP O95970
F	562	HIS	-	expression tag	UNP O95970
F	563	HIS	-	expression tag	UNP O95970
F	564	HIS	-	expression tag	UNP O95970
H	218	ASP	-	expression tag	UNP O95970
H	219	ALA	-	expression tag	UNP O95970
H	220	ALA	-	expression tag	UNP O95970

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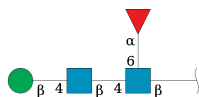
Chain	Residue	Modelled	Actual	Comment	Reference
H	221	GLN	-	expression tag	UNP O95970
H	222	PRO	-	expression tag	UNP O95970
H	223	ALA	-	expression tag	UNP O95970
H	558	LYS	-	expression tag	UNP O95970
H	559	HIS	-	expression tag	UNP O95970
H	560	HIS	-	expression tag	UNP O95970
H	561	HIS	-	expression tag	UNP O95970
H	562	HIS	-	expression tag	UNP O95970
H	563	HIS	-	expression tag	UNP O95970
H	564	HIS	-	expression tag	UNP O95970
J	218	ASP	-	expression tag	UNP O95970
J	219	ALA	-	expression tag	UNP O95970
J	220	ALA	-	expression tag	UNP O95970
J	221	GLN	-	expression tag	UNP O95970
J	222	PRO	-	expression tag	UNP O95970
J	223	ALA	-	expression tag	UNP O95970
J	558	LYS	-	expression tag	UNP O95970
J	559	HIS	-	expression tag	UNP O95970
J	560	HIS	-	expression tag	UNP O95970
J	561	HIS	-	expression tag	UNP O95970
J	562	HIS	-	expression tag	UNP O95970
J	563	HIS	-	expression tag	UNP O95970
J	564	HIS	-	expression tag	UNP O95970
L	218	ASP	-	expression tag	UNP O95970
L	219	ALA	-	expression tag	UNP O95970
L	220	ALA	-	expression tag	UNP O95970
L	221	GLN	-	expression tag	UNP O95970
L	222	PRO	-	expression tag	UNP O95970
L	223	ALA	-	expression tag	UNP O95970
L	558	LYS	-	expression tag	UNP O95970
L	559	HIS	-	expression tag	UNP O95970
L	560	HIS	-	expression tag	UNP O95970
L	561	HIS	-	expression tag	UNP O95970
L	562	HIS	-	expression tag	UNP O95970
L	563	HIS	-	expression tag	UNP O95970
L	564	HIS	-	expression tag	UNP O95970

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



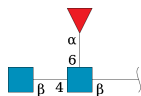
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	M	2	28	16	2	10	0	0	0
3	O	2	28	16	2	10	0	0	0
3	Q	2	28	16	2	10	0	0	0
3	T	2	28	16	2	10	0	0	0

- Molecule 4 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
4	N	4	49	28	2	19	0	0	0
4	S	4	49	28	2	19	0	0	0

- Molecule 5 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
5	P	3	38	22	2	14	0	0	0
5	U	3	38	22	2	14	0	0	0
5	V	3	38	22	2	14	0	0	0

- Molecule 6 is an oligosaccharide called alpha-L-fucopyranose-(1-6)-2-acetamido-2-deoxy-beta-D-glucopyranose.

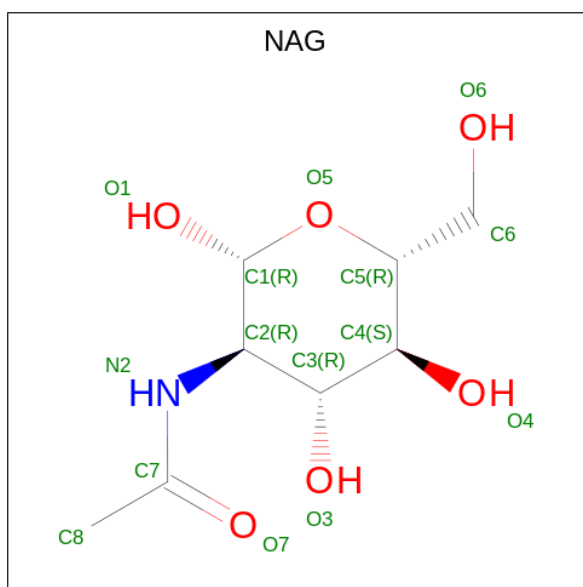


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace	
			Total	C	N				O
6	R	2	24	14	1	9	0	0	0

- Molecule 7 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	3	Total 3	Ca 3	0	0
7	C	3	Total 3	Ca 3	0	0
7	E	3	Total 3	Ca 3	0	0
7	G	3	Total 3	Ca 3	0	0
7	I	3	Total 3	Ca 3	0	0
7	K	3	Total 3	Ca 3	0	0
7	B	1	Total 1	Ca 1	0	0
7	D	1	Total 1	Ca 1	0	0
7	F	1	Total 1	Ca 1	0	0
7	H	1	Total 1	Ca 1	0	0
7	J	1	Total 1	Ca 1	0	0
7	L	1	Total 1	Ca 1	0	0

- Molecule 8 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	H	1	Total	C	N	O	0	0
			14	8	1	5		
8	L	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	91	Total	O	0	0
			91	91		
9	C	73	Total	O	0	0
			73	73		
9	E	78	Total	O	0	0
			78	78		
9	G	72	Total	O	0	0
			72	72		
9	I	91	Total	O	0	0
			91	91		
9	K	83	Total	O	0	0
			83	83		
9	B	94	Total	O	0	0
			94	94		
9	D	78	Total	O	0	0
			78	78		
9	F	62	Total	O	0	0
			62	62		
9	H	66	Total	O	0	0
			66	66		

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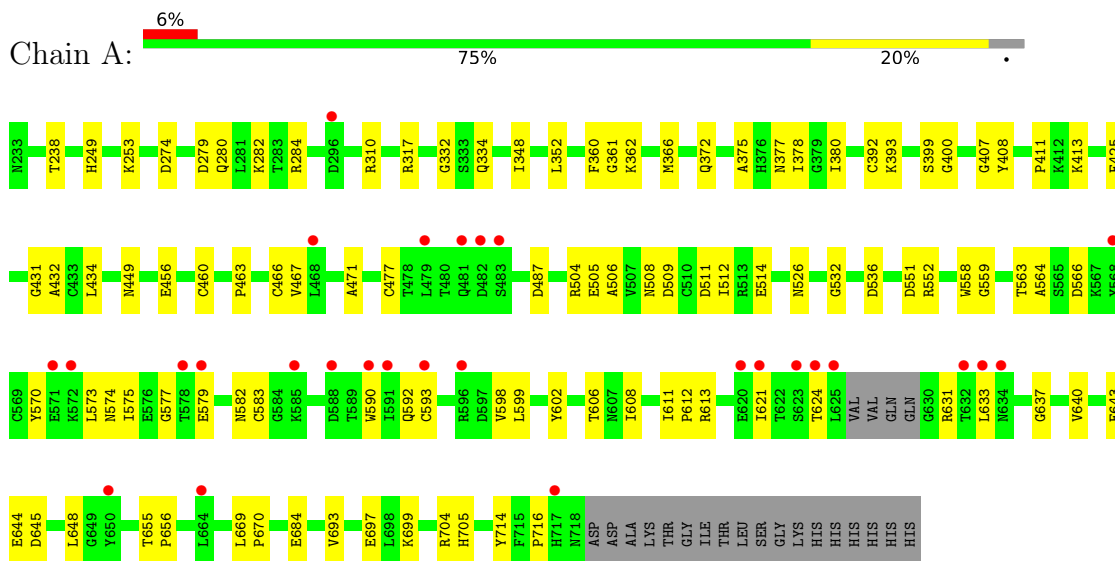
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	J	67	Total O 67 67	0	0
9	L	59	Total O 59 59	0	0

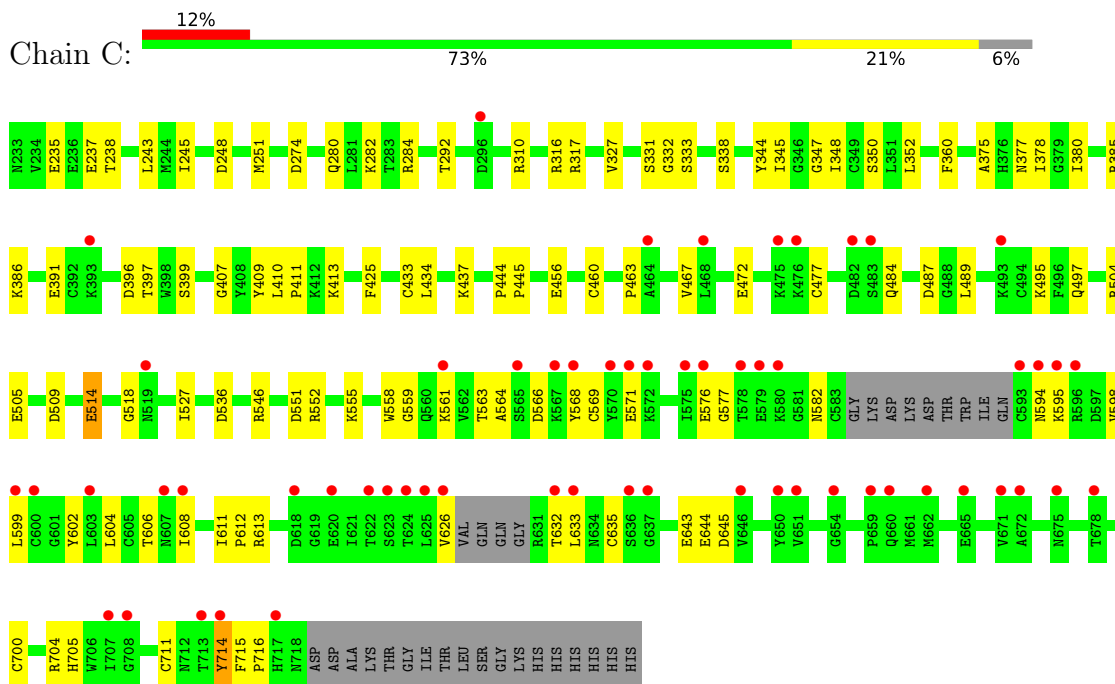
3 Residue-property plots [i](#)

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

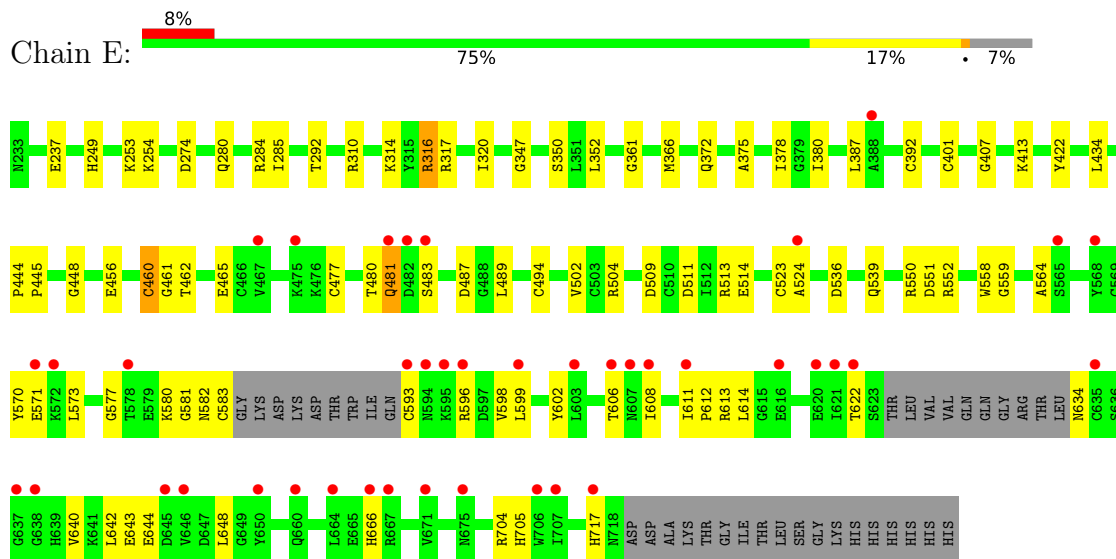
- Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22



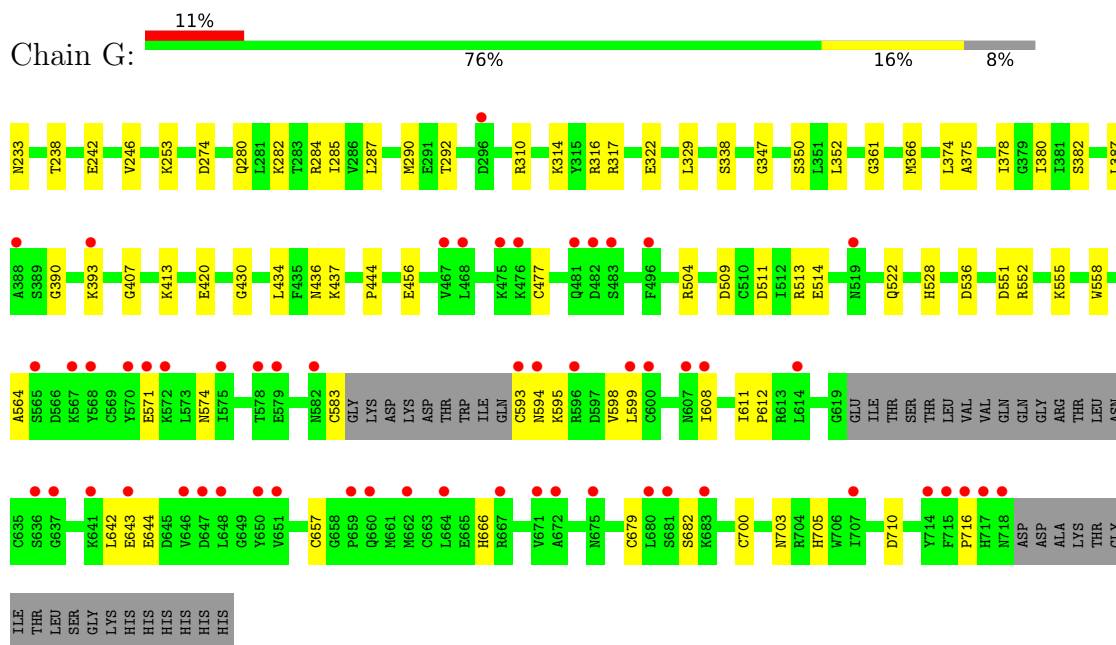
- Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22



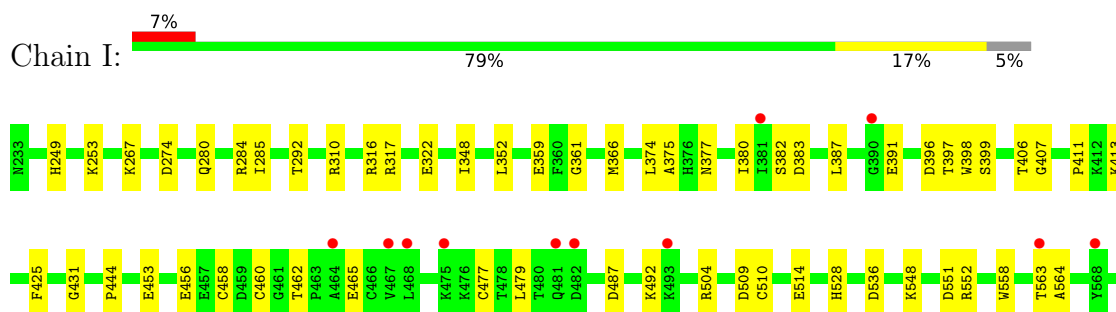
• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22

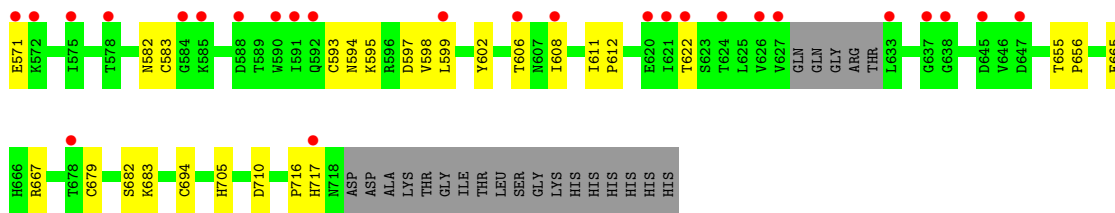


• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22

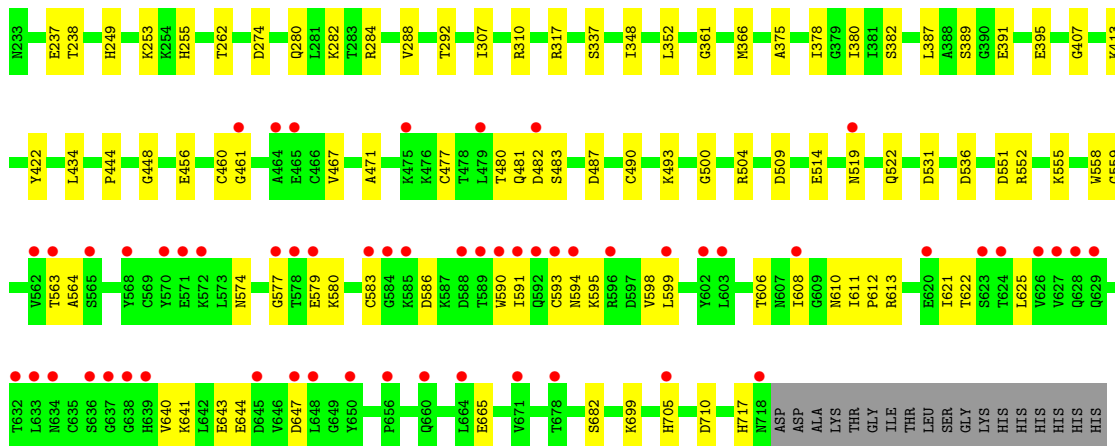
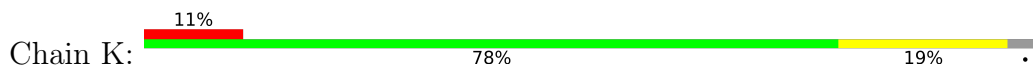


• Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22

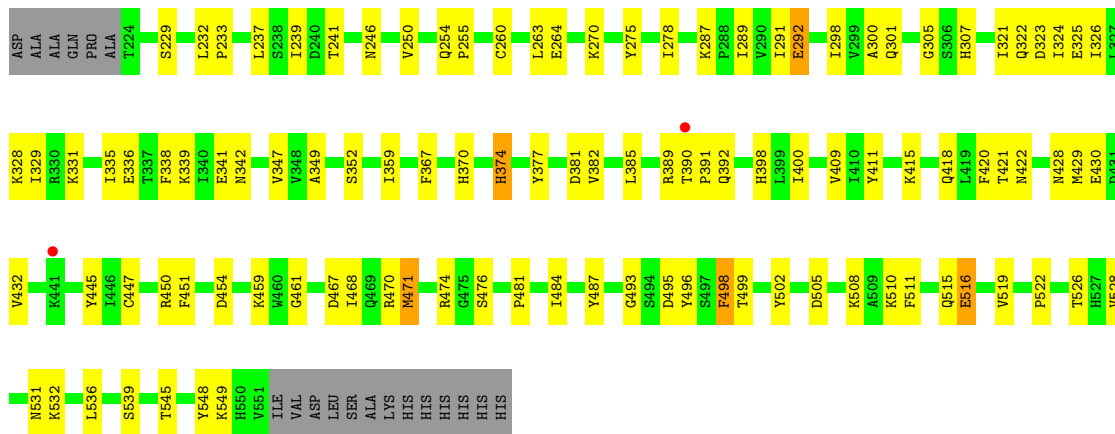




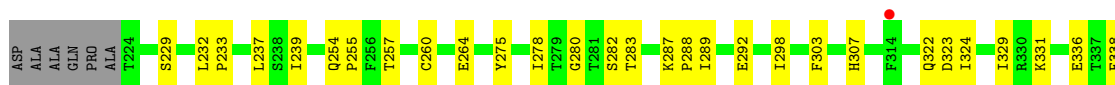
● Molecule 1: Disintegrin and metalloproteinase domain-containing protein 22

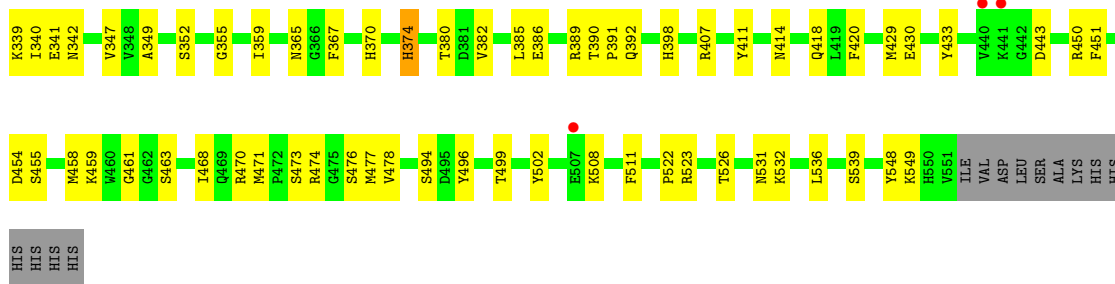


● Molecule 2: Leucine-rich glioma-inactivated protein 1

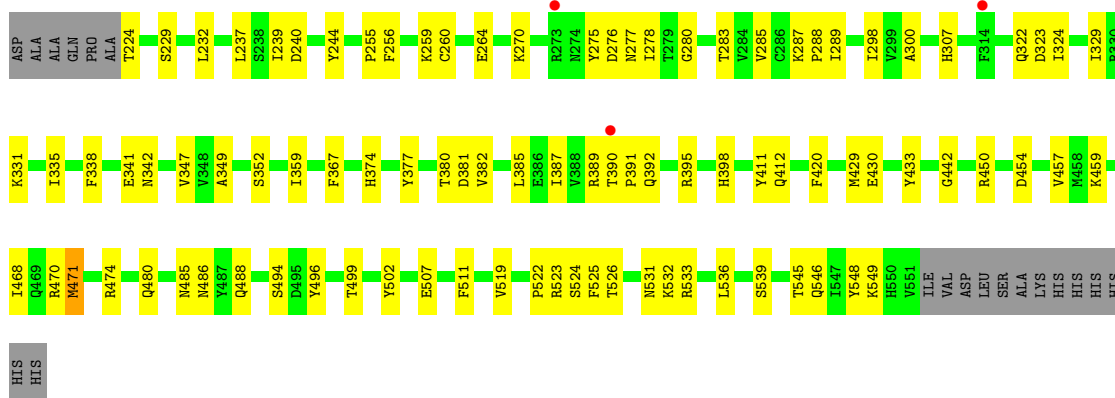


● Molecule 2: Leucine-rich glioma-inactivated protein 1

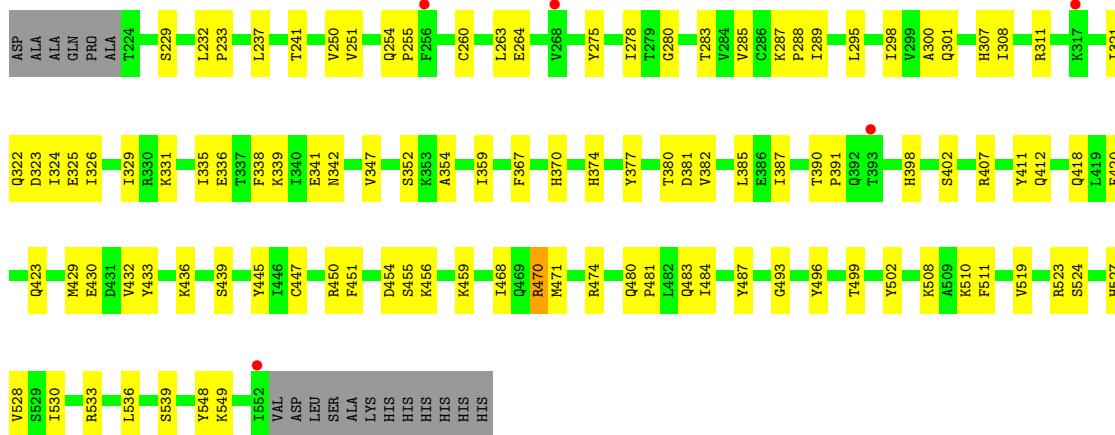




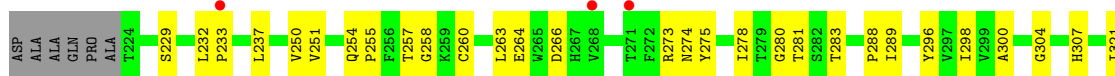
• Molecule 2: Leucine-rich glioma-inactivated protein 1

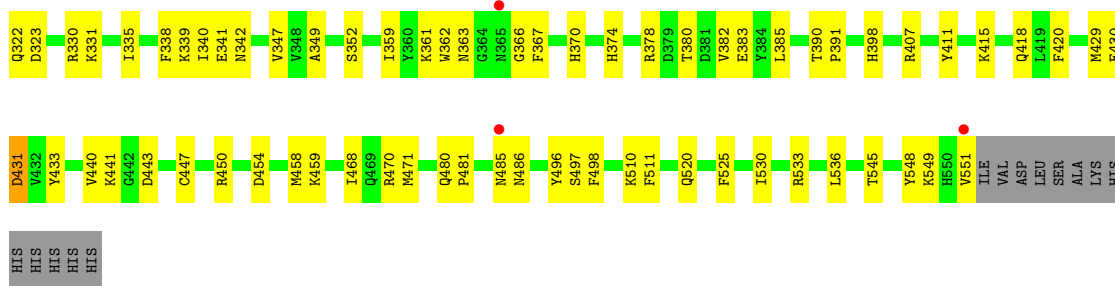


• Molecule 2: Leucine-rich glioma-inactivated protein 1

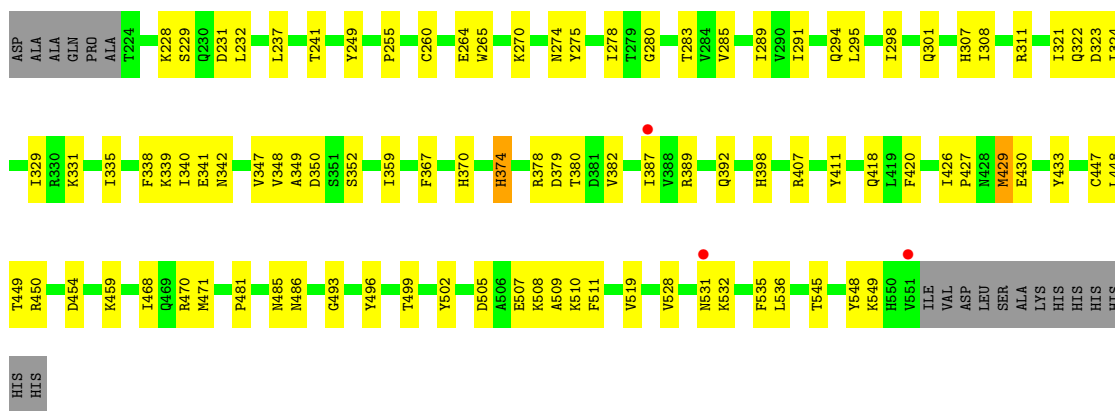


• Molecule 2: Leucine-rich glioma-inactivated protein 1





• Molecule 2: Leucine-rich glioma-inactivated protein 1



• Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain T:  100%

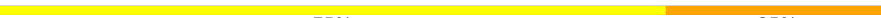
 MAG1
MAG2

- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain N:  50% 50%

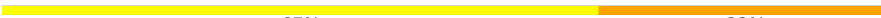
 MAG1
MAG2
BMA3
FUC4

- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain S:  75% 25%

 MAG1
MAG2
BMA3
FUC4

- Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain P:  67% 33%

 MAG1
MAG2
FUC3

- Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain U:  67% 33%

 MAG1
MAG2
FUC3

- Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain V:  67% 33%

 MAG1
MAG2
FUC3

- Molecule 6: alpha-L-fucopyranose-(1-6)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain R:  100%

MAC1
FUC2

4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	83.58Å 83.61Å 293.54Å 86.40° 88.17° 59.95°	Depositor
Resolution (Å)	48.83 – 2.67 48.83 – 2.67	Depositor EDS
% Data completeness (in resolution range)	90.5 (48.83-2.67) 90.5 (48.83-2.67)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.68 (at 2.65Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.244 , 0.279 0.245 , 0.279	Depositor DCC
R_{free} test set	9035 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å ²)	39.9	Xtrriage
Anisotropy	0.152	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 49.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	0.049 for h-k,-k,-l	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	39417	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.00% 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: NAG, CA, FUC, BMA

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	0.26	0/3759	0.43	0/5058
1	C	0.30	1/3683 (0.0%)	0.45	0/4955
1	E	0.29	0/3635	0.46	0/4889
1	G	0.27	0/3597	0.43	0/4837
1	I	0.28	0/3751	0.44	0/5049
1	K	0.27	0/3792	0.43	0/5105
2	B	0.44	3/2783 (0.1%)	0.57	5/3775 (0.1%)
2	D	0.29	0/2783	0.45	0/3775
2	F	0.29	0/2783	0.47	0/3775
2	H	0.29	0/2791	0.45	0/3786
2	J	0.29	0/2783	0.47	0/3775
2	L	0.29	0/2783	0.46	0/3775
All	All	0.30	4/38923 (0.0%)	0.46	5/52554 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	516	GLU	CD-OE1	-10.55	1.14	1.25
2	B	498	PHE	CD1-CE1	-7.18	1.24	1.39
2	B	516	GLU	CG-CD	-6.86	1.41	1.51
1	C	514	GLU	CB-CG	6.45	1.64	1.52

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	474	ARG	NE-CZ-NH2	-8.95	115.82	120.30
2	B	516	GLU	CG-CD-OE2	8.25	134.80	118.30
2	B	516	GLU	CG-CD-OE1	-7.31	103.69	118.30
2	B	498	PHE	CD1-CE1-CZ	6.08	127.40	120.10
2	B	474	ARG	NE-CZ-NH1	5.29	122.94	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	3696	0	3548	82	0
1	C	3623	0	3480	79	0
1	E	3575	0	3422	72	0
1	G	3537	0	3387	50	0
1	I	3688	0	3543	67	0
1	K	3728	0	3583	77	0
2	B	2708	0	2635	77	0
2	D	2708	0	2635	68	0
2	F	2708	0	2635	65	0
2	H	2716	0	2646	70	0
2	J	2708	0	2635	66	0
2	L	2708	0	2635	63	0
3	M	28	0	25	1	0
3	O	28	0	25	0	0
3	Q	28	0	25	0	0
3	T	28	0	25	0	0
4	N	49	0	43	0	0
4	S	49	0	43	1	0
5	P	38	0	34	3	0
5	U	38	0	33	1	0
5	V	38	0	34	0	0
6	R	24	0	22	1	0
7	A	3	0	0	0	0
7	B	1	0	0	0	0
7	C	3	0	0	0	0
7	D	1	0	0	0	0
7	E	3	0	0	0	0
7	F	1	0	0	0	0
7	G	3	0	0	0	0
7	H	1	0	0	0	0
7	I	3	0	0	0	0
7	J	1	0	0	0	0
7	K	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	L	1	0	0	0	0
8	H	14	0	13	0	0
8	L	14	0	13	1	0
9	A	91	0	0	28	0
9	B	94	0	0	21	1
9	C	73	0	0	18	0
9	D	78	0	0	18	0
9	E	78	0	0	23	0
9	F	62	0	0	17	0
9	G	72	0	0	10	0
9	H	66	0	0	15	0
9	I	91	0	0	27	0
9	J	67	0	0	14	0
9	K	83	0	0	32	1
9	L	59	0	0	12	0
All	All	39417	0	37119	822	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 11.

The worst 5 of 822 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)
1:E:513:ARG:NH1	9:E:901:HOH:O	1.85	1.07
2:L:307:HIS:NE2	9:L:701:HOH:O	1.91	1.01
1:I:458:CYS:SG	9:I:949:HOH:O	2.20	0.99
2:B:377:TYR:O	9:B:701:HOH:O	1.81	0.97
2:H:377:TYR:O	9:H:701:HOH:O	1.81	0.96

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)
9:K:959:HOH:O	9:B:783:HOH:O[1_554]	1.93	0.27

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	478/504 (95%)	461 (96%)	17 (4%)	0	100	100
1	C	467/504 (93%)	453 (97%)	14 (3%)	0	100	100
1	E	461/504 (92%)	448 (97%)	13 (3%)	0	100	100
1	G	456/504 (90%)	441 (97%)	15 (3%)	0	100	100
1	I	477/504 (95%)	462 (97%)	15 (3%)	0	100	100
1	K	484/504 (96%)	468 (97%)	16 (3%)	0	100	100
2	B	326/347 (94%)	309 (95%)	17 (5%)	0	100	100
2	D	326/347 (94%)	310 (95%)	16 (5%)	0	100	100
2	F	326/347 (94%)	312 (96%)	14 (4%)	0	100	100
2	H	327/347 (94%)	310 (95%)	17 (5%)	0	100	100
2	J	326/347 (94%)	310 (95%)	16 (5%)	0	100	100
2	L	326/347 (94%)	309 (95%)	17 (5%)	0	100	100
All	All	4780/5106 (94%)	4593 (96%)	187 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	416/435 (96%)	415 (100%)	1 (0%)	93	98
1	C	409/435 (94%)	406 (99%)	3 (1%)	84	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	403/435 (93%)	399 (99%)	4 (1%)	76	90
1	G	398/435 (92%)	397 (100%)	1 (0%)	92	97
1	I	416/435 (96%)	414 (100%)	2 (0%)	88	95
1	K	420/435 (97%)	420 (100%)	0	100	100
2	B	300/315 (95%)	296 (99%)	4 (1%)	69	86
2	D	300/315 (95%)	298 (99%)	2 (1%)	84	93
2	F	300/315 (95%)	296 (99%)	4 (1%)	69	86
2	H	301/315 (96%)	299 (99%)	2 (1%)	84	93
2	J	300/315 (95%)	297 (99%)	3 (1%)	76	90
2	L	300/315 (95%)	294 (98%)	6 (2%)	55	79
All	All	4263/4500 (95%)	4231 (99%)	32 (1%)	81	92

5 of 32 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	L	449	THR
2	L	471	MET
2	B	374	HIS
2	B	292	GLU
2	L	507	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 39 such sidechains are listed below:

Mol	Chain	Res	Type
2	H	418	GLN
2	J	485	ASN
2	J	274	ASN
2	J	412	GLN
2	L	406	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](#)

27 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	M	1	3,2	14,14,15	0.33	0	17,19,21	0.62	0
3	NAG	M	2	3	14,14,15	0.23	0	17,19,21	0.36	0
4	NAG	N	1	4,2	14,14,15	0.18	0	17,19,21	0.45	0
4	NAG	N	2	4	14,14,15	0.31	0	17,19,21	0.51	0
4	BMA	N	3	4	11,11,12	1.10	2 (18%)	15,15,17	1.69	4 (26%)
4	FUC	N	4	4	10,10,11	1.20	1 (10%)	14,14,16	1.51	3 (21%)
3	NAG	O	1	3,2	14,14,15	0.19	0	17,19,21	0.45	0
3	NAG	O	2	3	14,14,15	0.33	0	17,19,21	0.36	0
5	NAG	P	1	5,2	14,14,15	0.35	0	17,19,21	0.50	0
5	NAG	P	2	5	14,14,15	0.57	0	17,19,21	1.40	2 (11%)
5	FUC	P	3	5	10,10,11	1.34	2 (20%)	14,14,16	1.65	1 (7%)
3	NAG	Q	1	3,2	14,14,15	0.25	0	17,19,21	0.48	0
3	NAG	Q	2	3	14,14,15	0.31	0	17,19,21	0.41	0
6	NAG	R	1	6,2	14,14,15	0.38	0	17,19,21	0.37	0
6	FUC	R	2	6	10,10,11	1.54	2 (20%)	14,14,16	2.02	3 (21%)
4	NAG	S	1	4,2	14,14,15	0.63	0	17,19,21	0.81	0
4	NAG	S	2	4	14,14,15	0.88	1 (7%)	17,19,21	0.94	1 (5%)
4	BMA	S	3	4	11,11,12	2.12	4 (36%)	15,15,17	1.62	4 (26%)
4	FUC	S	4	4	10,10,11	1.61	3 (30%)	14,14,16	2.01	4 (28%)
3	NAG	T	1	3,2	14,14,15	0.33	0	17,19,21	0.45	0
3	NAG	T	2	3	14,14,15	0.21	0	17,19,21	0.42	0
5	NAG	U	1	5,2	14,14,15	0.68	1 (7%)	17,19,21	0.85	1 (5%)
5	NAG	U	2	5	14,14,15	0.52	0	17,19,21	1.38	3 (17%)
5	FUC	U	3	5	10,10,11	2.06	2 (20%)	14,14,16	2.09	4 (28%)
5	NAG	V	1	5,2	14,14,15	0.26	0	17,19,21	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	NAG	V	2	5	14,14,15	0.23	0	17,19,21	0.54	0
5	FUC	V	3	5	10,10,11	1.38	1 (10%)	14,14,16	2.49	4 (28%)

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	M	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	M	2	3	-	0/6/23/26	0/1/1/1
4	NAG	N	1	4,2	-	2/6/23/26	0/1/1/1
4	NAG	N	2	4	-	1/6/23/26	0/1/1/1
4	BMA	N	3	4	-	1/2/19/22	0/1/1/1
4	FUC	N	4	4	-	-	0/1/1/1
3	NAG	O	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	O	2	3	-	4/6/23/26	0/1/1/1
5	NAG	P	1	5,2	-	4/6/23/26	0/1/1/1
5	NAG	P	2	5	-	3/6/23/26	0/1/1/1
5	FUC	P	3	5	-	-	0/1/1/1
3	NAG	Q	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	Q	2	3	-	2/6/23/26	0/1/1/1
6	NAG	R	1	6,2	-	2/6/23/26	0/1/1/1
6	FUC	R	2	6	-	-	0/1/1/1
4	NAG	S	1	4,2	-	2/6/23/26	0/1/1/1
4	NAG	S	2	4	-	0/6/23/26	0/1/1/1
4	BMA	S	3	4	-	1/2/19/22	0/1/1/1
4	FUC	S	4	4	-	-	0/1/1/1
3	NAG	T	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	T	2	3	-	0/6/23/26	0/1/1/1
5	NAG	U	1	5,2	-	2/6/23/26	0/1/1/1
5	NAG	U	2	5	-	4/6/23/26	0/1/1/1
5	FUC	U	3	5	-	-	0/1/1/1
5	NAG	V	1	5,2	-	4/6/23/26	0/1/1/1
5	NAG	V	2	5	-	1/6/23/26	0/1/1/1
5	FUC	V	3	5	-	-	0/1/1/1

The worst 5 of 19 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	U	3	FUC	O2-C2	5.08	1.54	1.43
4	S	3	BMA	C2-C3	4.75	1.59	1.52
4	S	3	BMA	C1-C2	3.85	1.61	1.52
5	V	3	FUC	C1-C2	3.72	1.60	1.52
4	S	4	FUC	C2-C3	-3.53	1.47	1.52

The worst 5 of 34 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	V	3	FUC	C1-C2-C3	6.79	118.01	109.67
6	R	2	FUC	C1-C2-C3	5.56	116.50	109.67
5	P	3	FUC	C1-C2-C3	4.95	115.75	109.67
5	P	2	NAG	C2-N2-C7	4.49	129.29	122.90
5	U	3	FUC	O2-C2-C1	4.39	118.14	109.15

There are no chirality outliers.

5 of 41 torsion outliers are listed below:

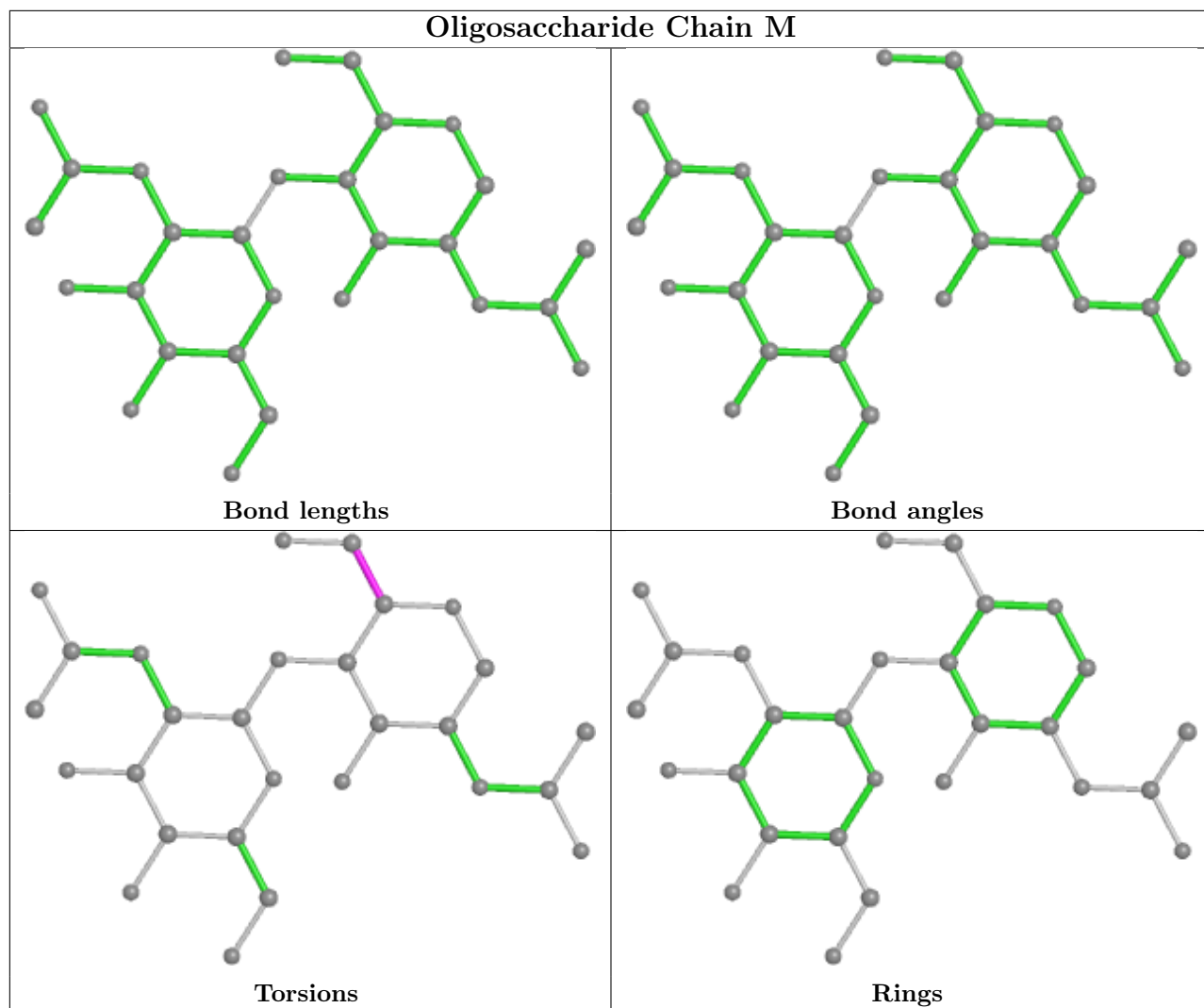
Mol	Chain	Res	Type	Atoms
3	T	1	NAG	O5-C5-C6-O6
4	N	1	NAG	O5-C5-C6-O6
5	V	1	NAG	O5-C5-C6-O6
3	M	1	NAG	O5-C5-C6-O6
3	O	1	NAG	O5-C5-C6-O6

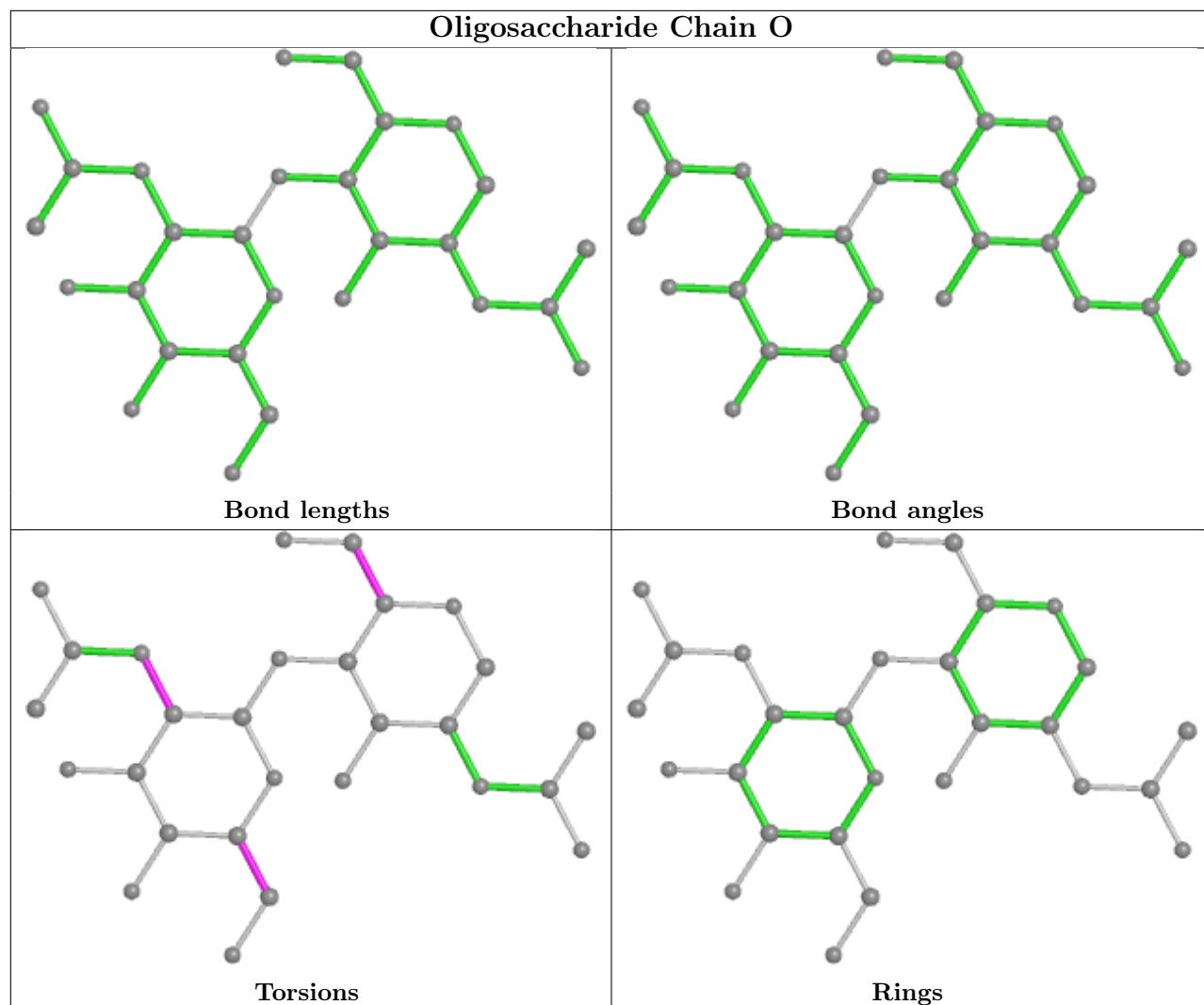
There are no ring outliers.

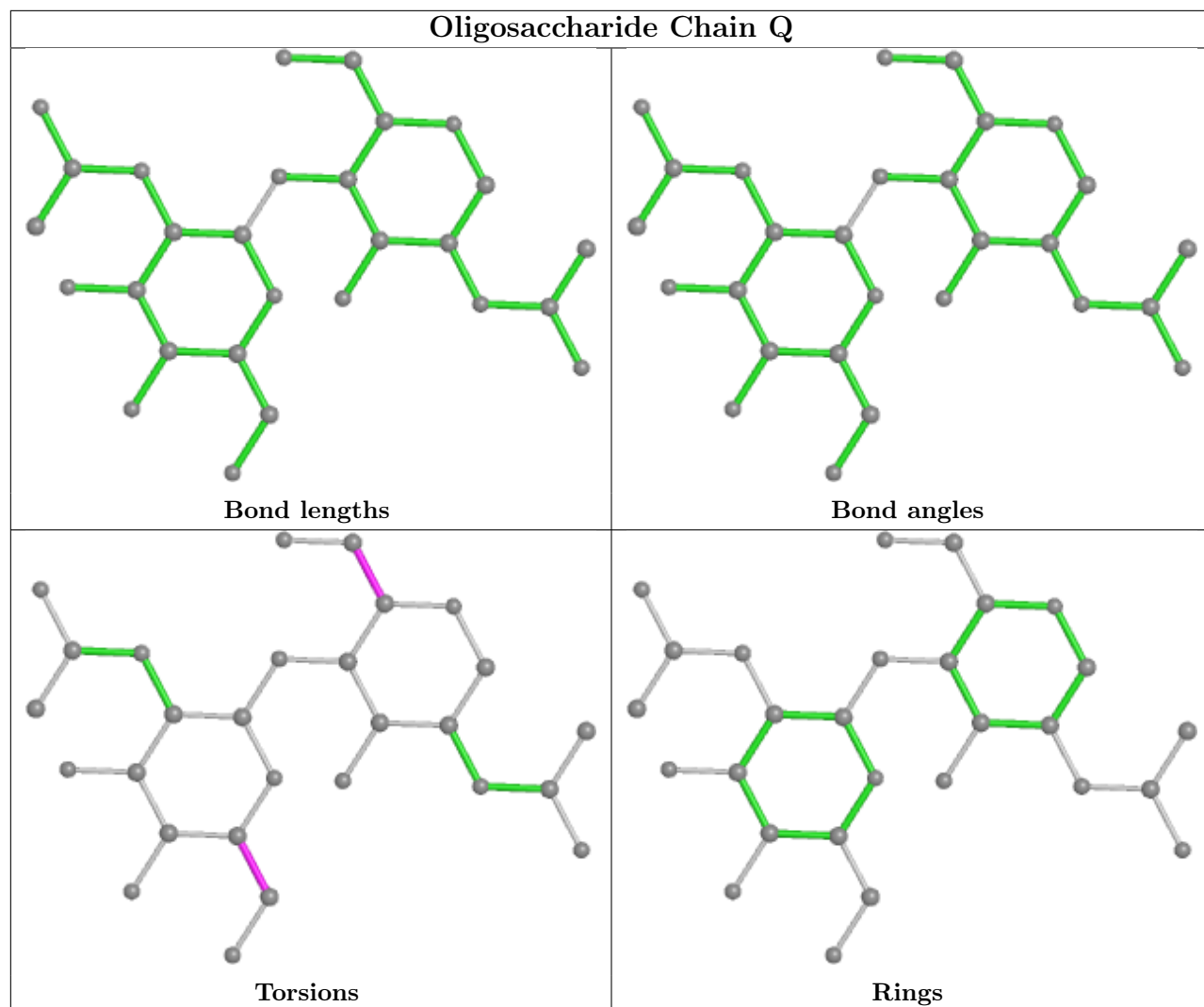
7 monomers are involved in 7 short contacts:

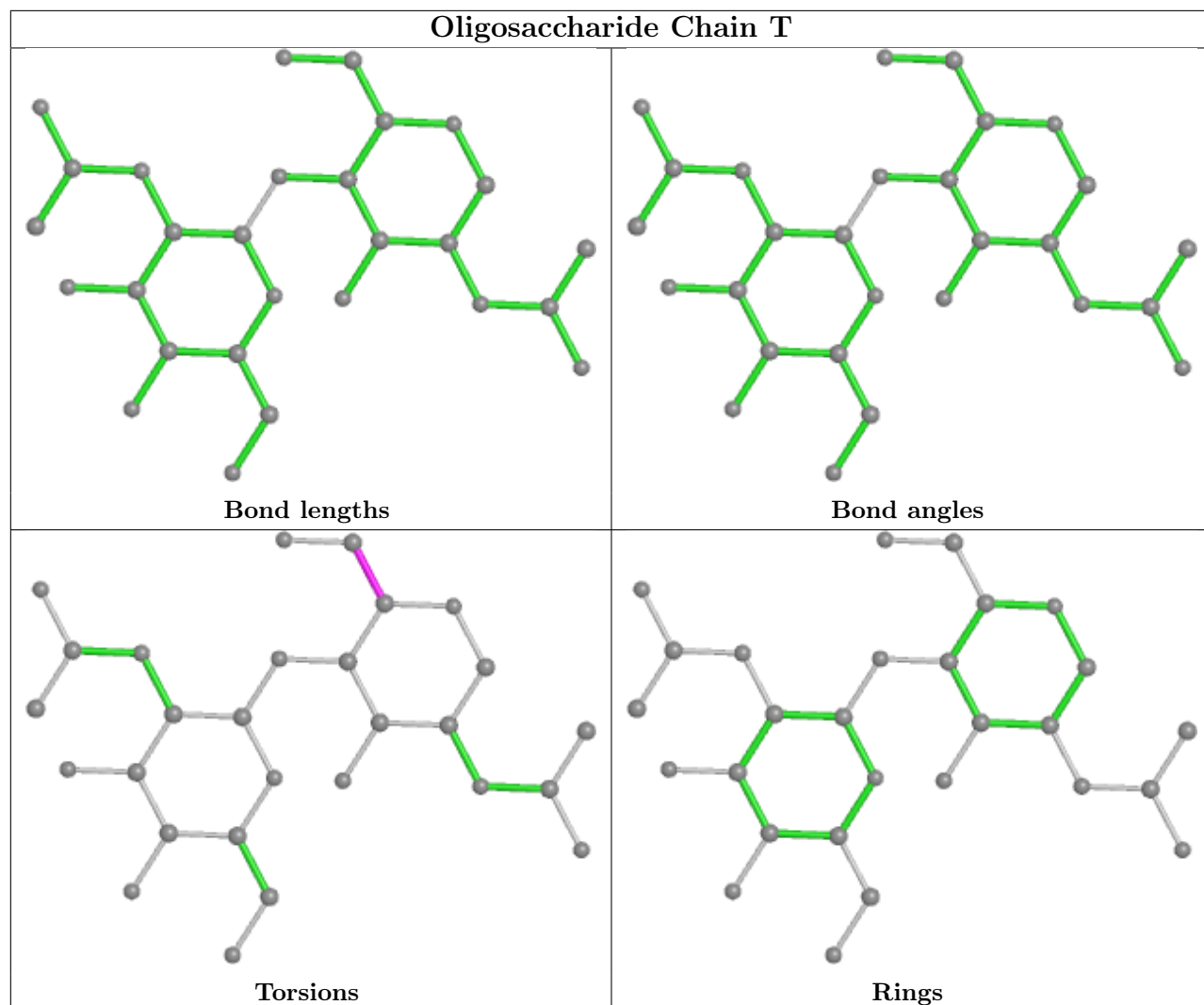
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	P	2	NAG	2	0
5	U	2	NAG	1	0
6	R	1	NAG	1	0
4	S	4	FUC	1	0
4	S	1	NAG	1	0
5	P	1	NAG	2	0
3	M	2	NAG	1	0

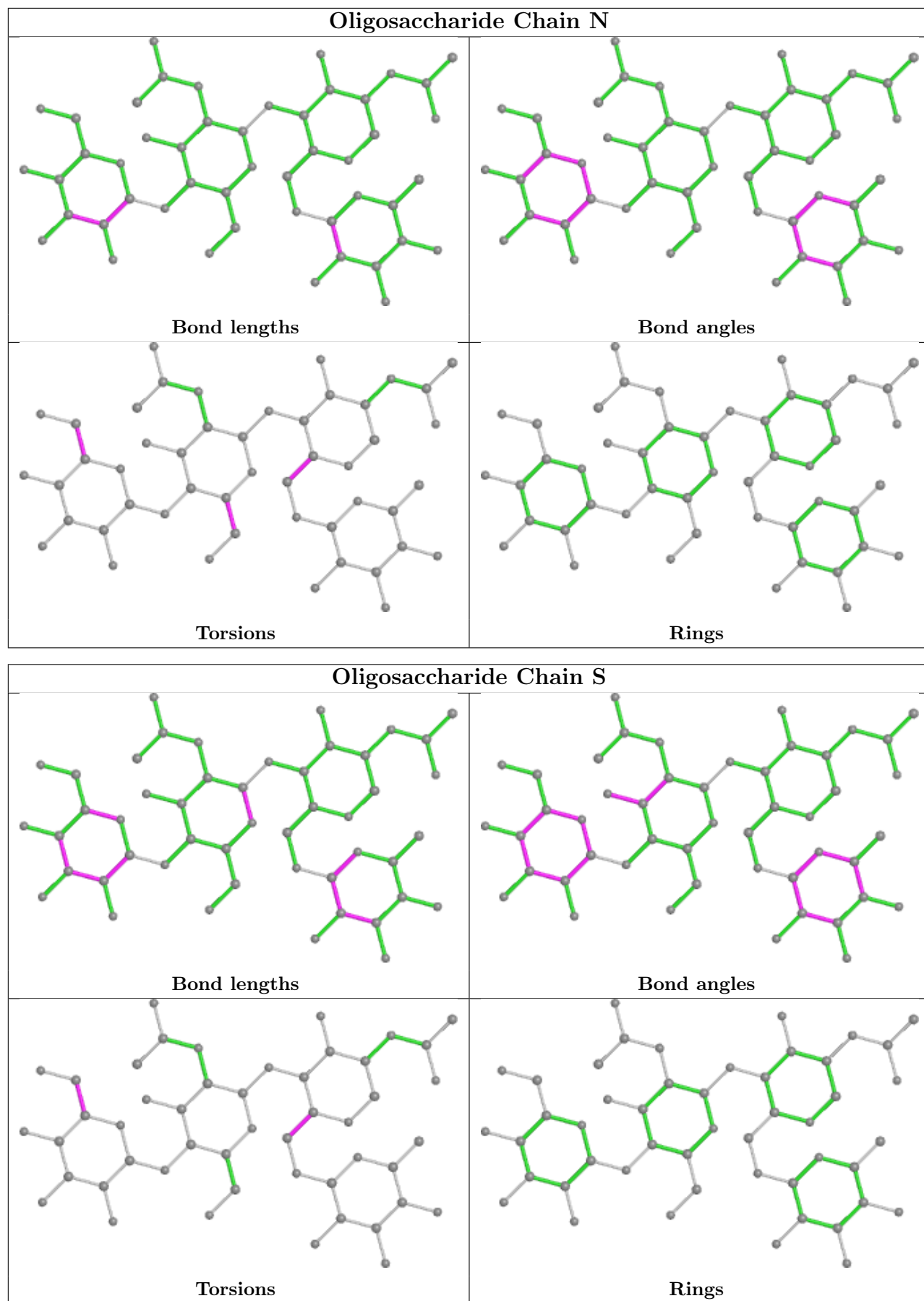
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

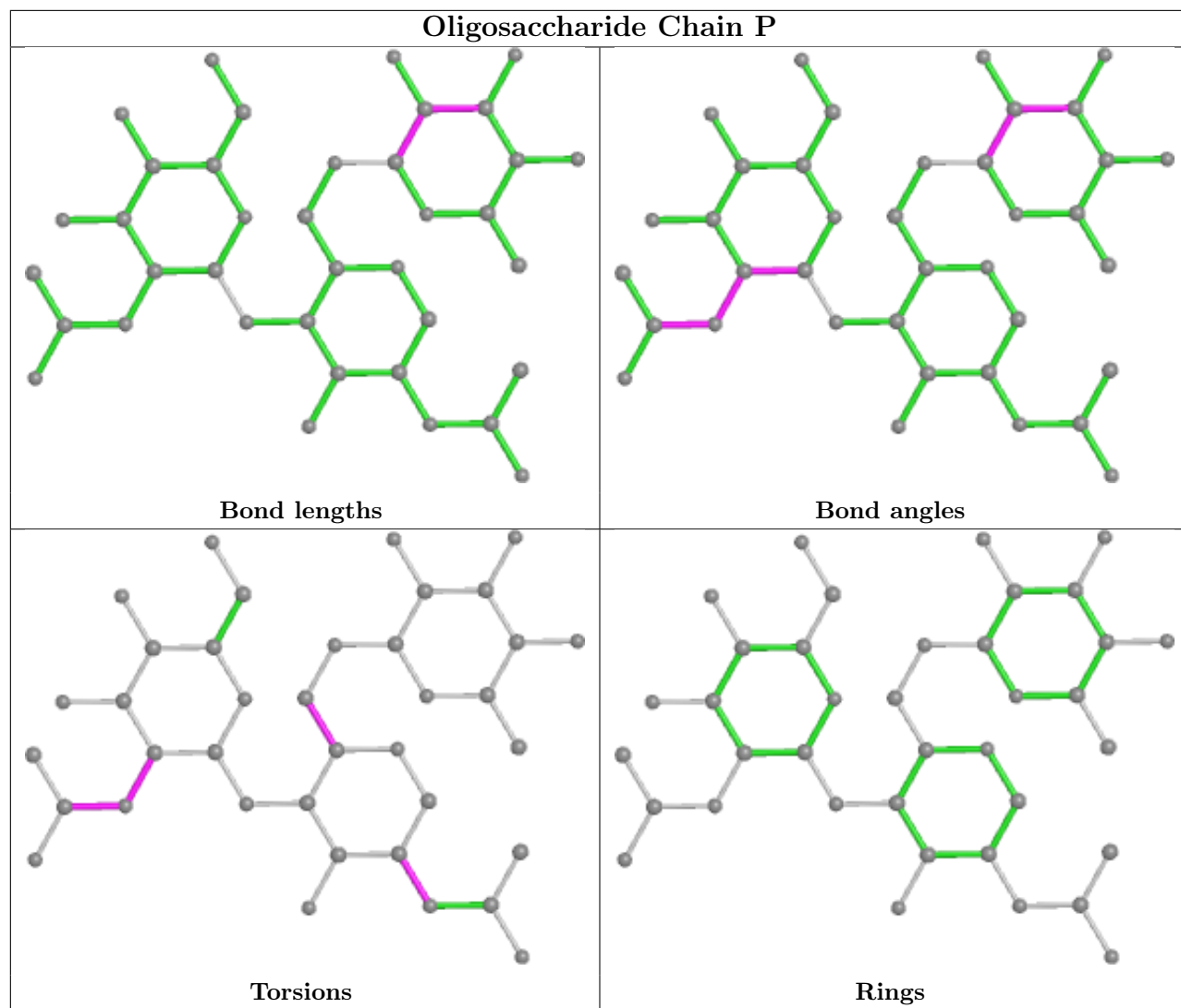


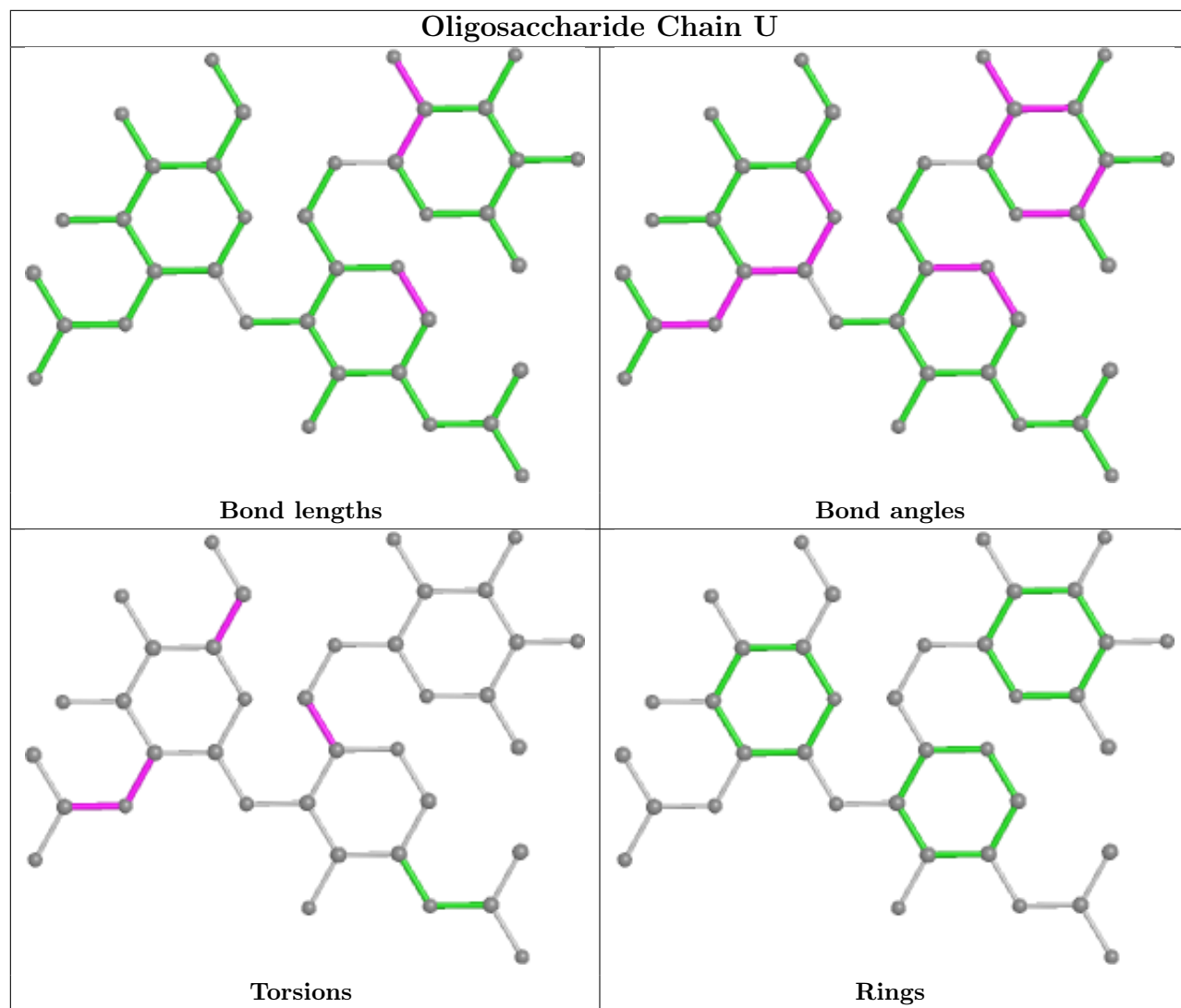


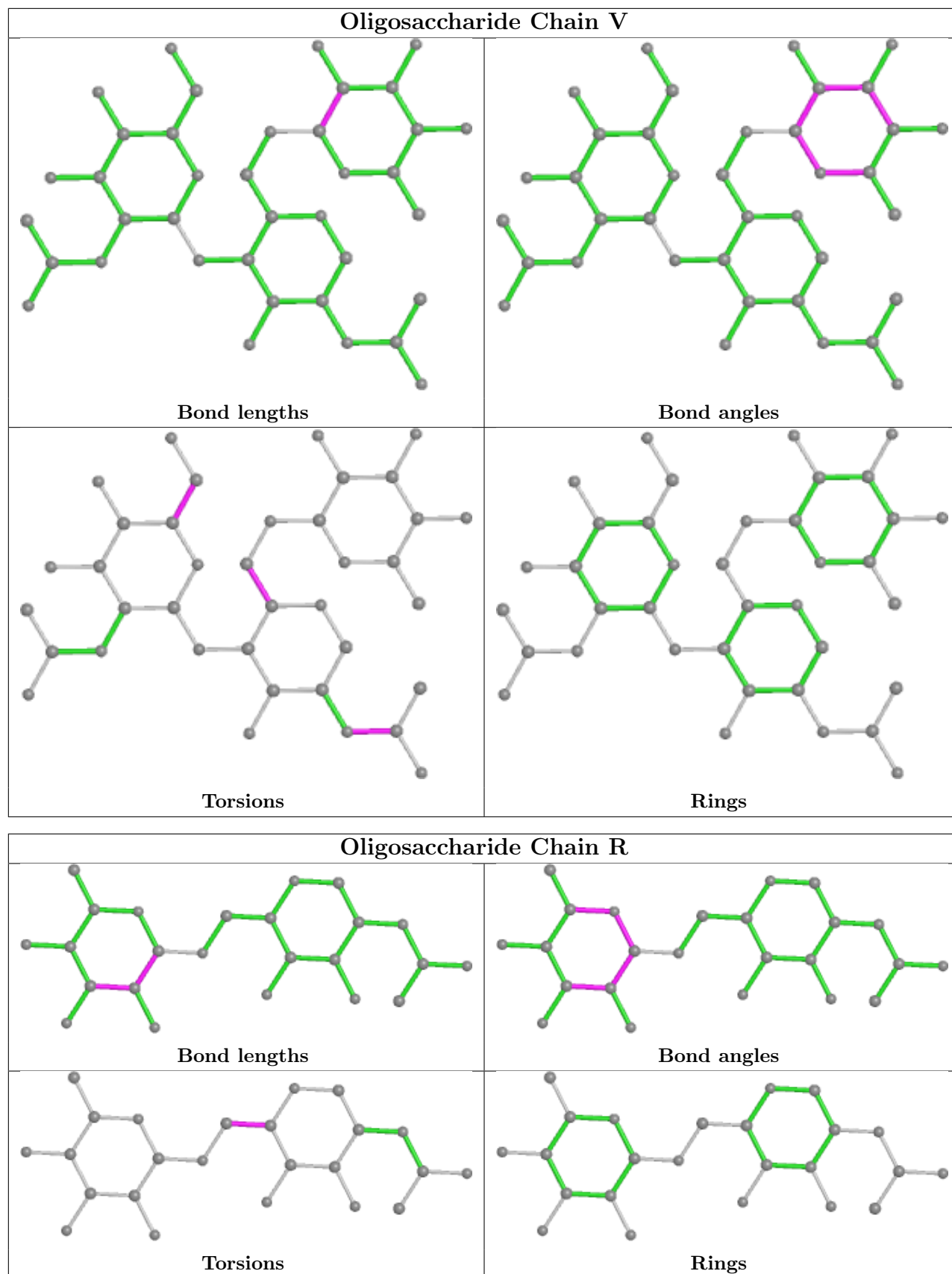












5.6 Ligand geometry

Of 26 ligands modelled in this entry, 24 are monoatomic - leaving 2 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
8	NAG	L	602	2	14,14,15	0.23	0	17,19,21	0.37	0
8	NAG	H	602	2	14,14,15	0.39	0	17,19,21	0.52	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
8	NAG	L	602	2	-	2/6/23/26	0/1/1/1
8	NAG	H	602	2	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	L	602	NAG	O5-C5-C6-O6
8	H	602	NAG	O5-C5-C6-O6
8	L	602	NAG	C4-C5-C6-O6
8	H	602	NAG	C4-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	L	602	NAG	1	0

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 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	482/504 (95%)	0.25	28 (5%) 23 21	19, 43, 89, 112	0
1	C	473/504 (93%)	0.56	59 (12%) 3 3	18, 50, 110, 133	0
1	E	467/504 (92%)	0.46	41 (8%) 10 8	18, 49, 100, 123	0
1	G	462/504 (91%)	0.56	56 (12%) 4 3	22, 51, 98, 134	0
1	I	481/504 (95%)	0.40	37 (7%) 13 11	21, 46, 92, 112	0
1	K	486/504 (96%)	0.48	57 (11%) 4 3	20, 51, 104, 137	0
2	B	328/347 (94%)	0.02	2 (0%) 89 90	21, 39, 59, 76	0
2	D	328/347 (94%)	0.08	4 (1%) 79 79	23, 38, 59, 75	0
2	F	328/347 (94%)	-0.01	3 (0%) 84 85	21, 38, 58, 87	0
2	H	329/347 (94%)	0.11	5 (1%) 73 74	22, 40, 69, 88	0
2	J	328/347 (94%)	0.15	6 (1%) 68 69	26, 42, 71, 86	0
2	L	328/347 (94%)	0.09	3 (0%) 84 85	22, 41, 68, 91	0
All	All	4820/5106 (94%)	0.30	301 (6%) 20 18	18, 43, 93, 137	0

The worst 5 of 301 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	568	TYR	8.2
1	G	637	GLY	7.9
1	E	568	TYR	7.9
1	K	626	VAL	7.5
1	I	633	LEU	7.3

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](#)

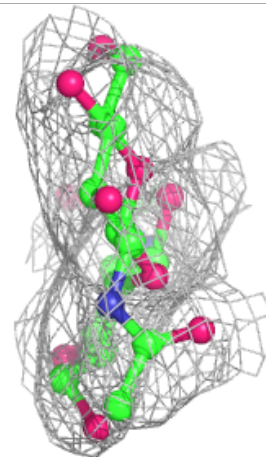
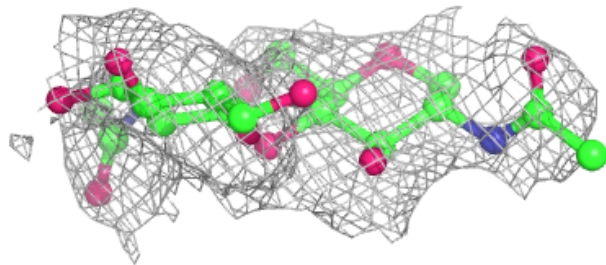
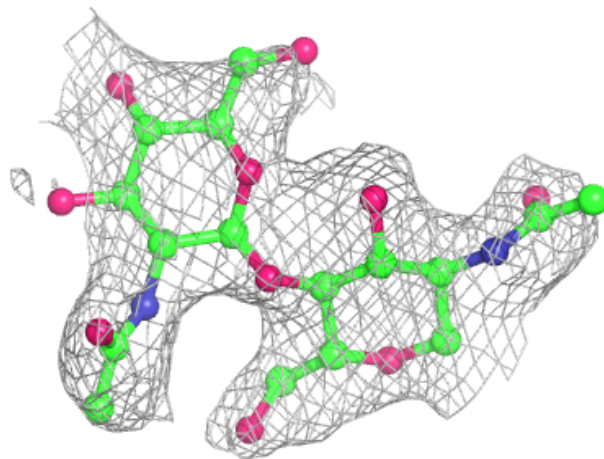
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

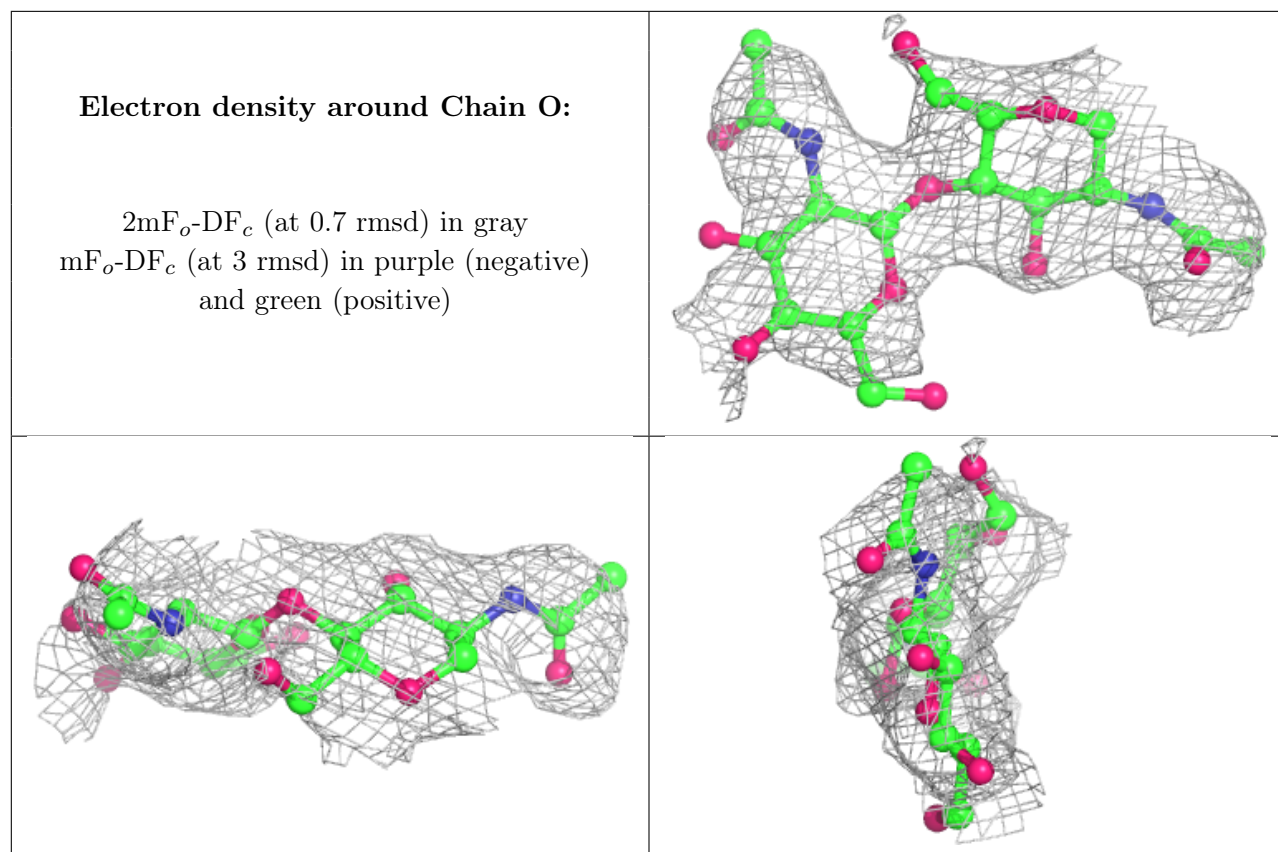
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	BMA	N	3	11/12	0.47	0.25	98,102,107,110	0
4	BMA	S	3	11/12	0.69	0.26	81,105,123,131	0
5	NAG	U	2	14/15	0.70	0.27	74,90,95,96	0
3	NAG	T	2	14/15	0.76	0.36	73,85,91,97	0
5	NAG	P	2	14/15	0.81	0.39	79,86,90,91	0
3	NAG	T	1	14/15	0.81	0.28	60,70,77,83	0
3	NAG	Q	2	14/15	0.82	0.33	71,75,80,80	0
3	NAG	M	2	14/15	0.83	0.29	73,84,85,87	0
4	NAG	N	2	14/15	0.83	0.31	80,90,102,103	0
4	NAG	S	2	14/15	0.84	0.26	62,73,87,107	0
3	NAG	O	2	14/15	0.85	0.35	78,85,89,90	0
5	FUC	U	3	10/11	0.85	0.25	58,76,79,80	0
3	NAG	M	1	14/15	0.86	0.25	56,67,72,75	0
4	NAG	S	1	14/15	0.87	0.16	49,55,67,70	0
4	FUC	N	4	10/11	0.87	0.25	72,77,81,82	0
5	FUC	P	3	10/11	0.89	0.23	70,82,89,90	0
5	FUC	V	3	10/11	0.89	0.23	59,65,66,66	0
6	NAG	R	1	14/15	0.89	0.14	51,64,71,75	0
5	NAG	U	1	14/15	0.90	0.17	54,62,72,81	0
6	FUC	R	2	10/11	0.90	0.16	58,77,80,80	0
3	NAG	O	1	14/15	0.91	0.19	50,64,71,74	0
5	NAG	P	1	14/15	0.92	0.15	60,67,72,74	0
3	NAG	Q	1	14/15	0.92	0.18	50,60,65,66	0
5	NAG	V	2	14/15	0.92	0.17	55,63,67,68	0
4	NAG	N	1	14/15	0.94	0.12	54,62,71,80	0
5	NAG	V	1	14/15	0.94	0.10	40,48,57,64	0
4	FUC	S	4	10/11	0.95	0.19	56,64,71,73	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 M:

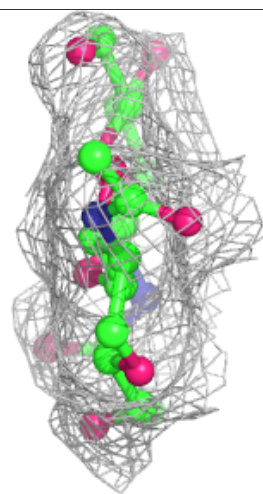
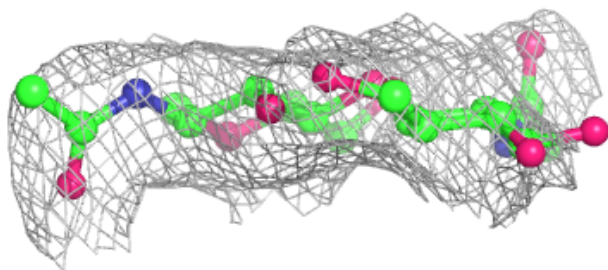
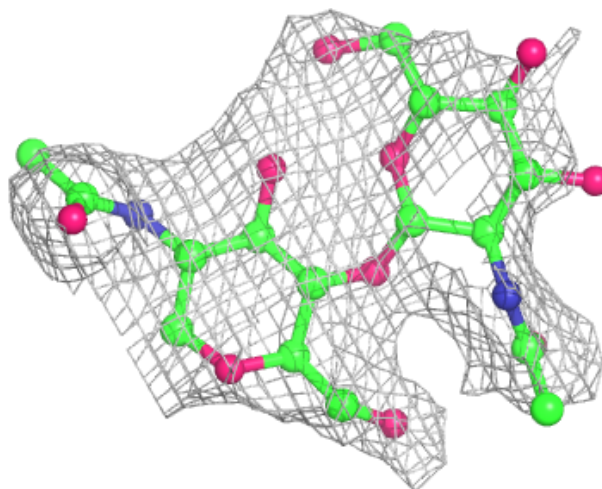
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





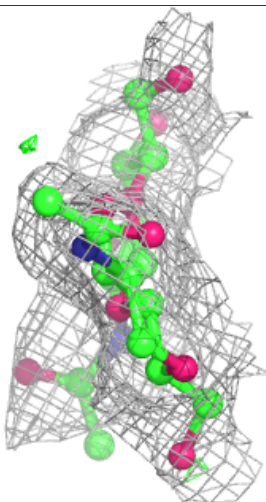
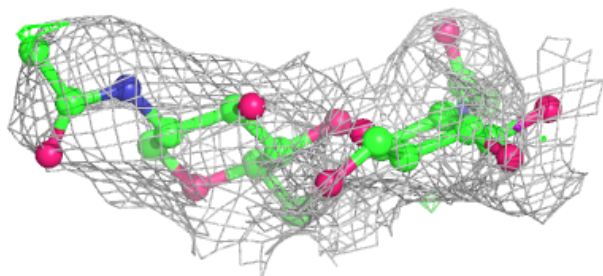
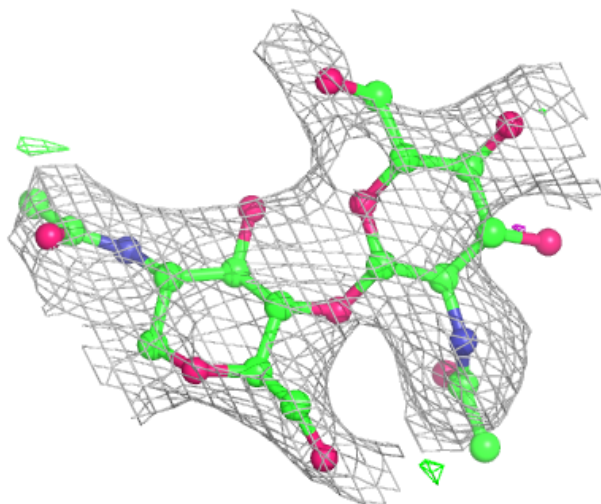
Electron density around Chain Q:

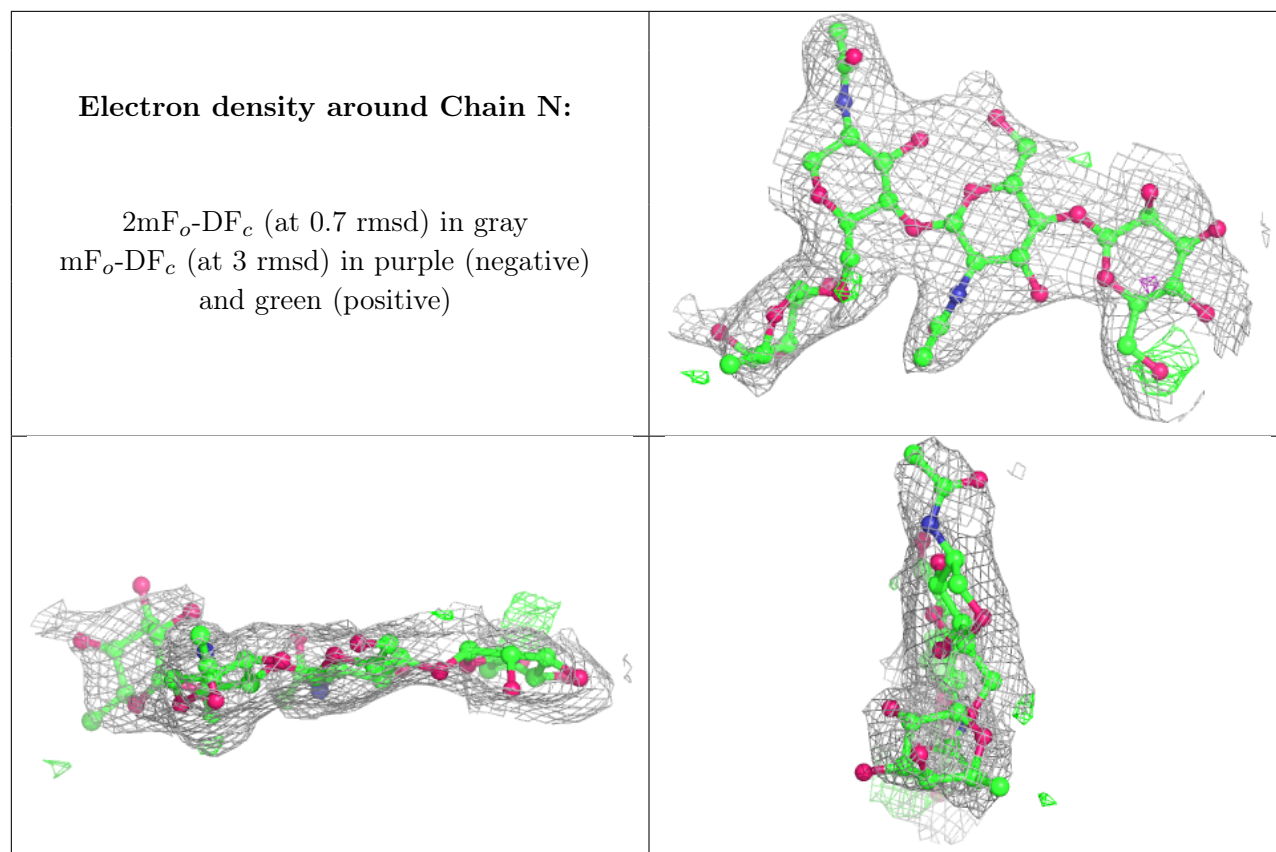
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around Chain T:

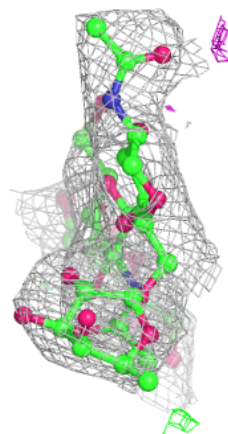
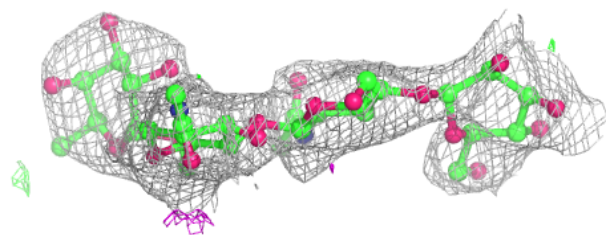
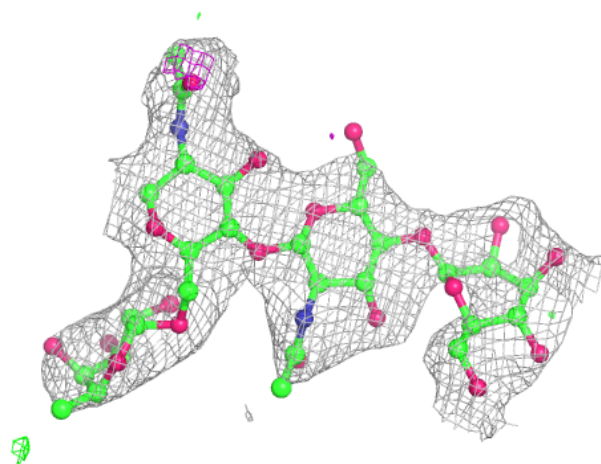
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





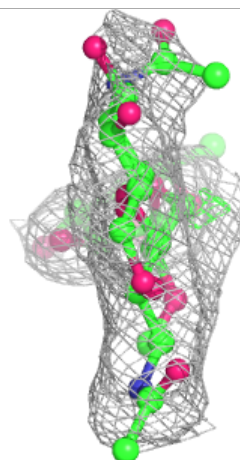
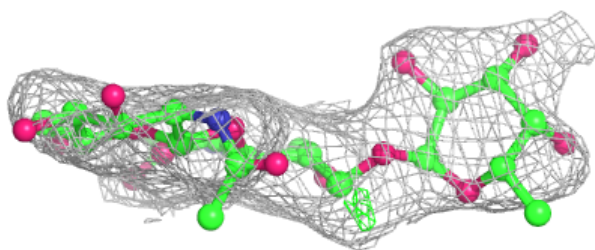
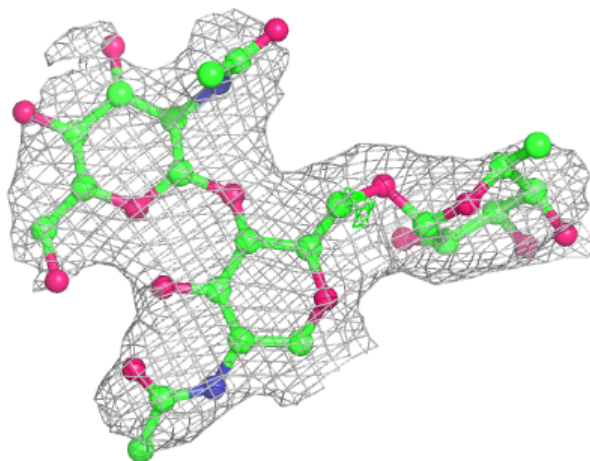
Electron density around Chain S:

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



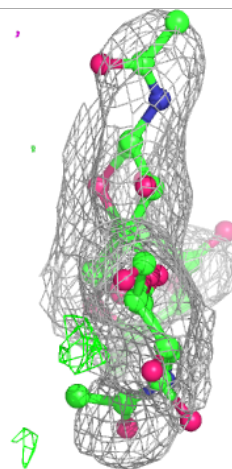
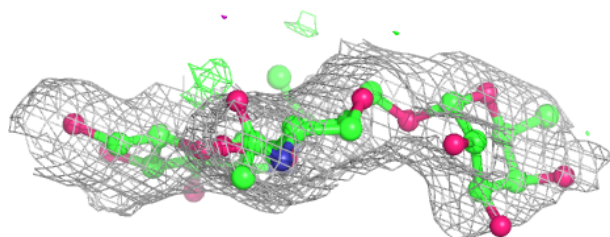
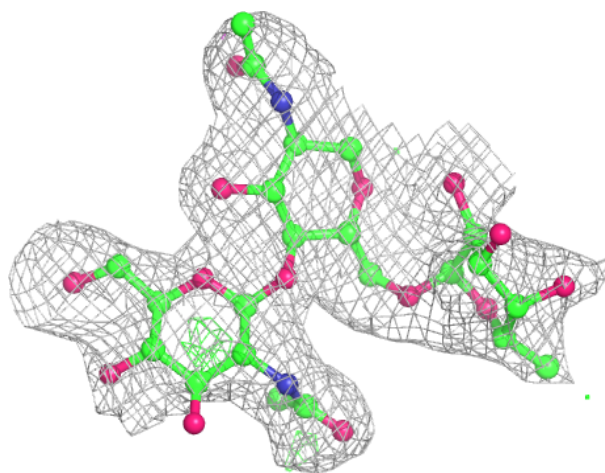
Electron density around Chain P:

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



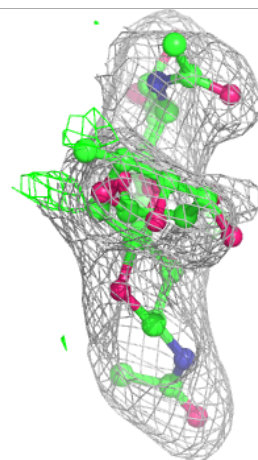
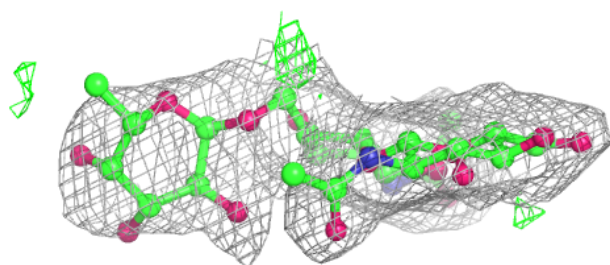
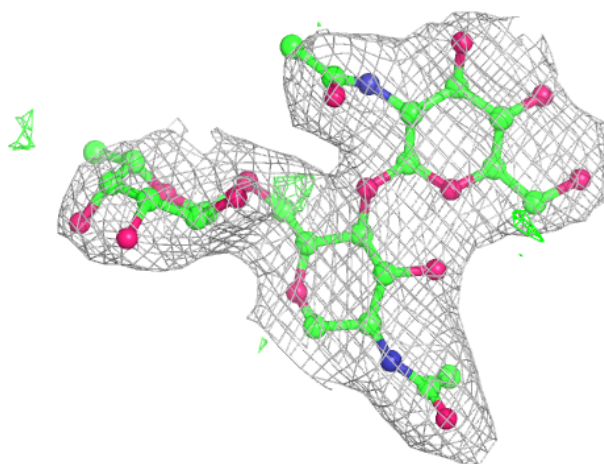
Electron density around Chain U:

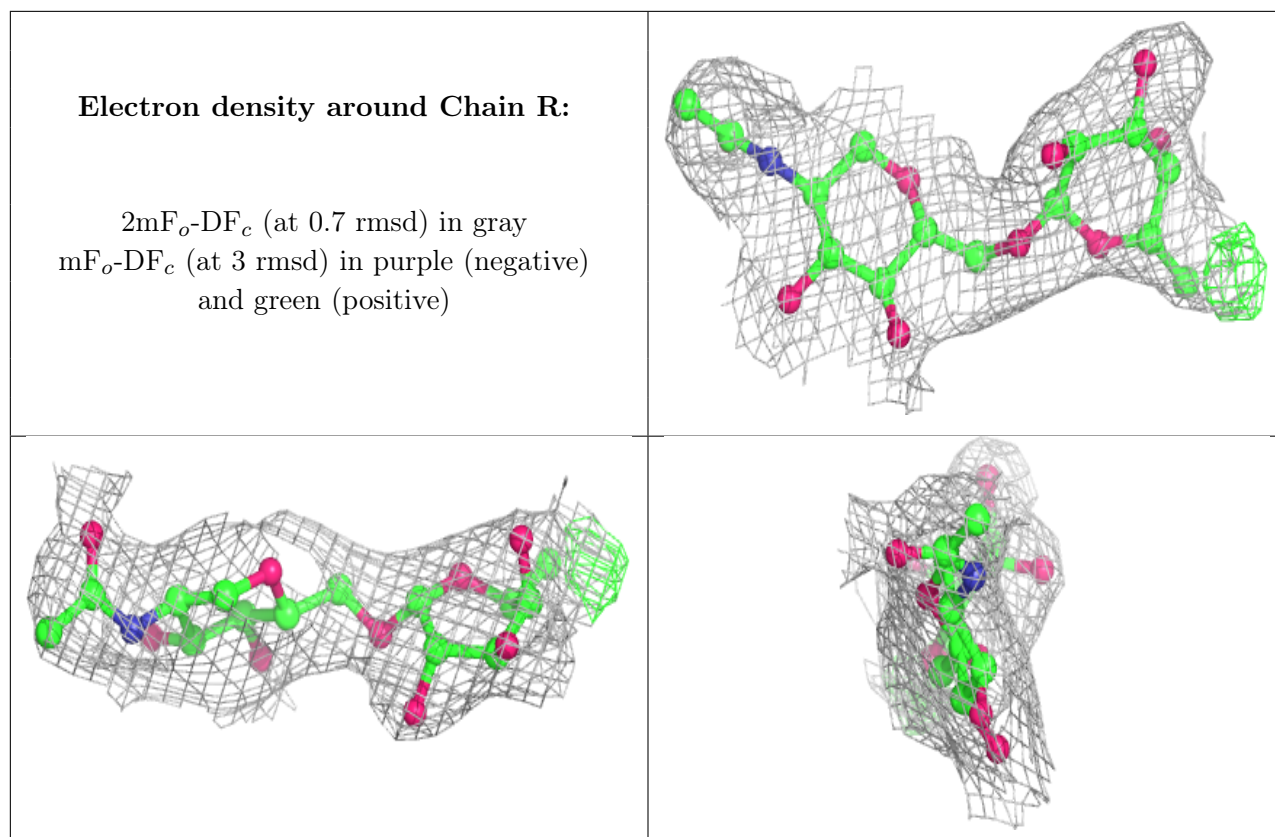
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around Chain V:

$2mF_o-DF_c$ (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
7	CA	E	802	1/1	0.79	0.07	41,41,41,41	0
7	CA	J	601	1/1	0.79	0.08	38,38,38,38	0
7	CA	G	803	1/1	0.83	0.12	33,33,33,33	0
8	NAG	L	602	14/15	0.84	0.31	61,67,73,77	0
8	NAG	H	602	14/15	0.86	0.19	59,62,69,72	0
7	CA	I	801	1/1	0.86	0.12	31,31,31,31	0
7	CA	C	802	1/1	0.87	0.08	45,45,45,45	0
7	CA	K	801	1/1	0.88	0.11	27,27,27,27	0
7	CA	A	801	1/1	0.88	0.13	27,27,27,27	0
7	CA	H	601	1/1	0.89	0.09	33,33,33,33	0
7	CA	C	801	1/1	0.90	0.07	27,27,27,27	0
7	CA	B	601	1/1	0.90	0.12	37,37,37,37	0
7	CA	I	802	1/1	0.90	0.07	37,37,37,37	0
7	CA	G	802	1/1	0.91	0.11	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
7	CA	A	802	1/1	0.91	0.10	46,46,46,46	0
7	CA	I	803	1/1	0.91	0.07	37,37,37,37	0
7	CA	F	601	1/1	0.92	0.07	33,33,33,33	0
7	CA	A	803	1/1	0.94	0.04	29,29,29,29	0
7	CA	G	801	1/1	0.94	0.09	26,26,26,26	0
7	CA	K	802	1/1	0.94	0.11	45,45,45,45	0
7	CA	L	601	1/1	0.94	0.09	40,40,40,40	0
7	CA	E	801	1/1	0.94	0.10	28,28,28,28	0
7	CA	D	601	1/1	0.94	0.07	41,41,41,41	0
7	CA	K	803	1/1	0.95	0.09	32,32,32,32	0
7	CA	E	803	1/1	0.96	0.09	32,32,32,32	0
7	CA	C	803	1/1	0.99	0.08	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.