



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 3, 2024 – 09:58 pm GMT

PDB ID : 5D6L
Title : beta2AR-T4L - CIM
Authors : Ma, P.; Caffrey, M.
Deposited on : 2015-08-12
Resolution : 3.20 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

<https://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 : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

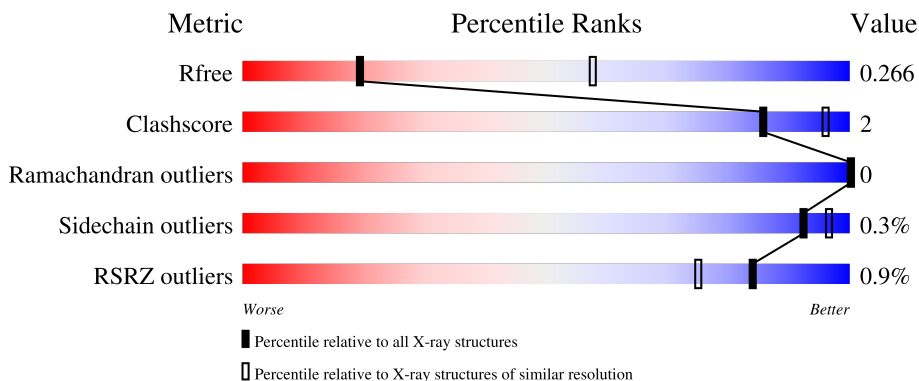
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 3.20 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	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)

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	500	 83% 5% 12%
2	B	2	 50% 50%

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
8	PLM	A	1215	-	-	-	X

2 Entry composition [i](#)

There are 9 unique types of molecules in this entry. The entry contains 3751 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 Beta-2 adrenergic receptor, Endolysin, Beta-2 adrenergic receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	442	3543	2315	590	614	24	0	0	0

There are 21 discrepancies between the modelled and reference sequences:

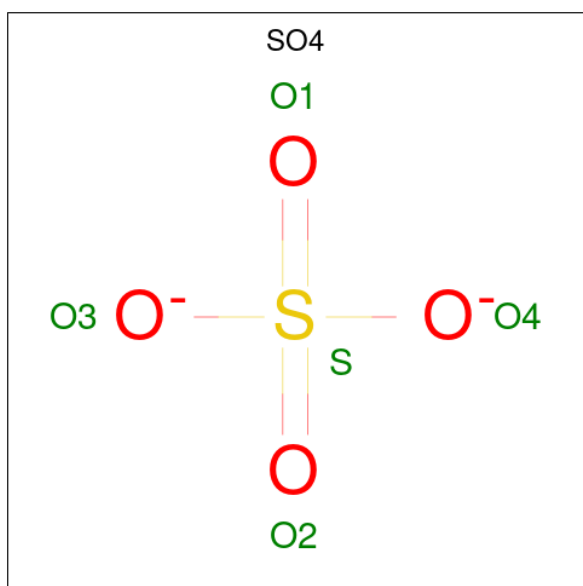
Chain	Residue	Modelled	Actual	Comment	Reference
A	-6	ASP	-	expression tag	UNP P07550
A	-5	TYR	-	expression tag	UNP P07550
A	-4	LYS	-	expression tag	UNP P07550
A	-3	ASP	-	expression tag	UNP P07550
A	-2	ASP	-	expression tag	UNP P07550
A	-1	ASP	-	expression tag	UNP P07550
A	0	ALA	-	expression tag	UNP P07550
A	16	ARG	GLY	conflict	UNP P07550
A	27	GLN	GLU	engineered mutation	UNP P07550
A	187	GLU	ASN	conflict	UNP P07550
A	224	GLN	-	linker	UNP P07550
A	225	GLU	-	linker	UNP P07550
A	226	ALA	-	linker	UNP P07550
A	227	LYS	-	linker	UNP P07550
A	228	ARG	-	linker	UNP P07550
A	229	GLN	-	linker	UNP P07550
A	230	LEU	MET	linker	UNP P00720
A	1012	GLY	ARG	conflict	UNP P00720
A	1054	THR	CYS	conflict	UNP P00720
A	1097	ALA	CYS	conflict	UNP P00720
A	1137	ARG	ILE	conflict	UNP P00720

- Molecule 2 is an oligosaccharide called alpha-D-glucopyranose-(1-4)-beta-D-glucopyranose.



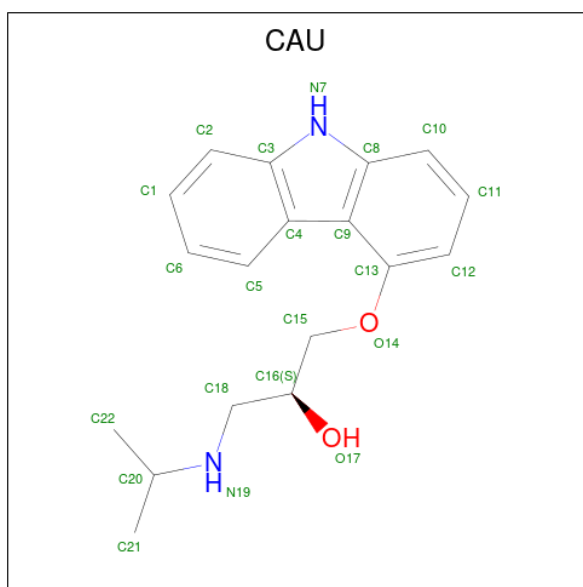
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	B	2	Total	C	O	0	0	0
			23	12	11			

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



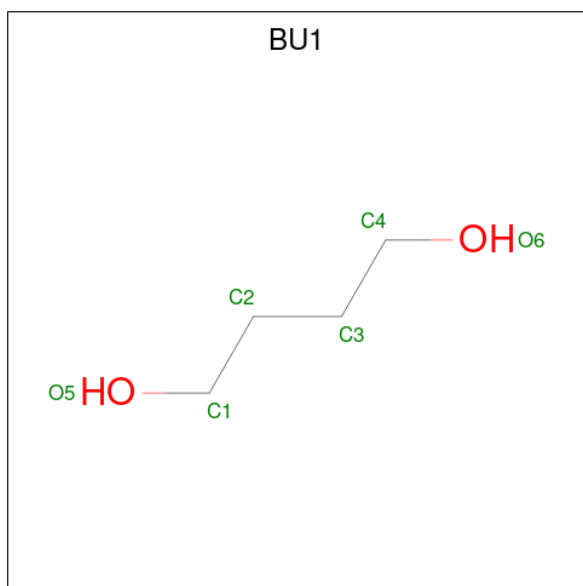
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is (2S)-1-(9H-Carbazol-4-yloxy)-3-(isopropylamino)propan-2-ol (three-letter code: CAU) (formula: C₁₈H₂₂N₂O₂).



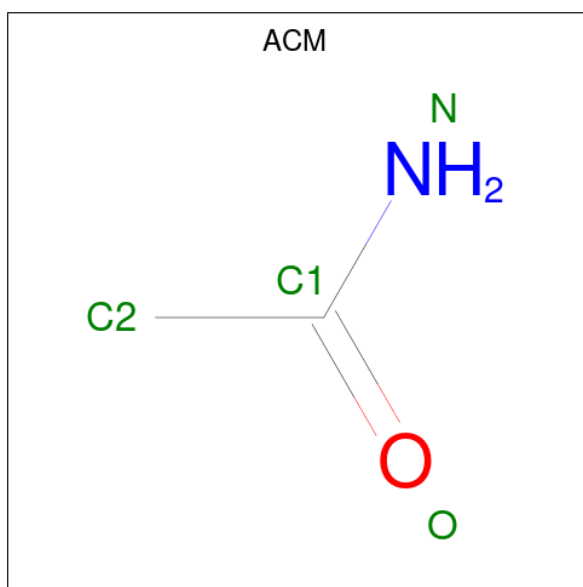
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
4	A	1	22	18	2	2	0	0

- Molecule 5 is 1,4-BUTANEDIOL (three-letter code: BU1) (formula: C₄H₁₀O₂).



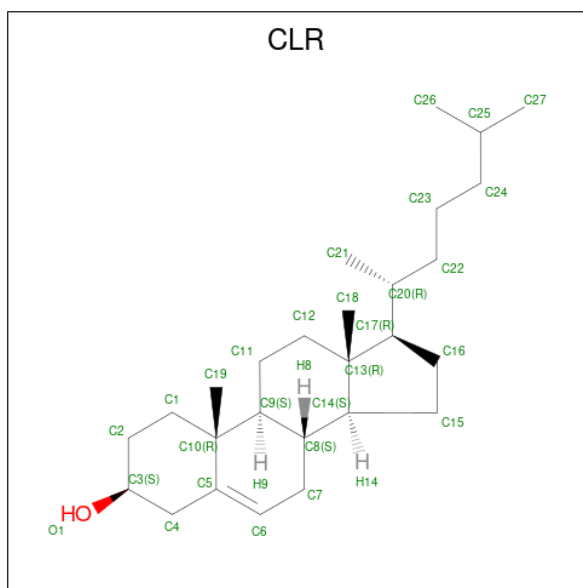
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
5	A	1	6	4	2	0	0
5	A	1	6	4	2	0	0

- Molecule 6 is ACETAMIDE (three-letter code: ACM) (formula: C₂H₅NO).



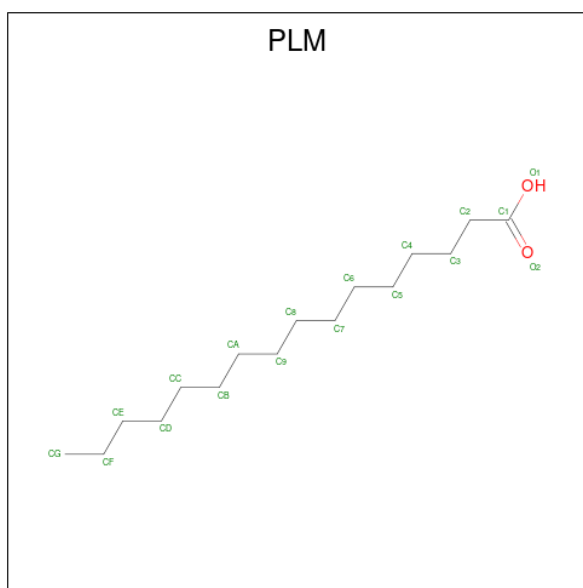
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
6	A	1	4	2	1	1	0	0

- Molecule 7 is CHOLESTEROL (three-letter code: CLR) (formula: $C_{27}H_{46}O$).



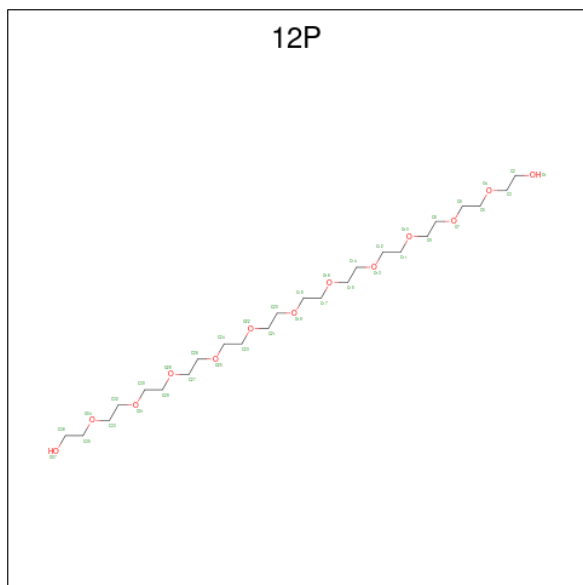
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
7	A	1	28	27	1	0	0
7	A	1	28	27	1	0	0
7	A	1	28	27	1	0	0

- Molecule 8 is PALMITIC ACID (three-letter code: PLM) (formula: $C_{16}H_{32}O_2$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
8	A	1	Total	C	O	0	0
			17	16	1		

- Molecule 9 is DODECAETHYLENE GLYCOL (three-letter code: 12P) (formula: $C_{24}H_{50}O_{13}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
9	A	1	Total	C	O	0	0
			16	11	5		

4 Data and refinement statistics i

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	107.26Å 170.36Å 40.27Å 90.00° 105.67° 90.00°	Depositor
Resolution (Å)	49.76 – 3.20 49.76 – 3.20	Depositor EDS
% Data completeness (in resolution range)	94.4 (49.76-3.20) 94.4 (49.76-3.20)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.73 (at 3.19Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.222 , 0.260 0.226 , 0.266	Depositor DCC
R_{free} test set	502 reflections (4.62%)	wwPDB-VP
Wilson B-factor (Å ²)	74.0	Xtrriage
Anisotropy	0.322	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 43.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.005 for 1/2*h+1/2*k+1,3/2*h-1/2*k+1,-1 0.002 for 1/2*h-1/2*k+1,-3/2*h-1/2*k-1,-1	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	3751	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.93% 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: GLC, BGC, CAU, SO4, BU1, ACM, CLR, PLM, 12P

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	0.24	0/3624	0.39	0/4920

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	3543	0	3610	15	0
2	B	23	0	21	1	0
3	A	30	0	0	0	0
4	A	22	0	22	0	0
5	A	12	0	20	0	0
6	A	4	0	4	0	0
7	A	84	0	119	2	0
8	A	17	0	31	0	0
9	A	16	0	18	0	0
All	All	3751	0	3845	17	0

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 2.

The worst 5 of 17 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:A:1124:LYS:HD3	1:A:1126:TRP:CZ2	2.42	0.55
1:A:1016:LYS:HG2	1:A:1057:VAL:HG22	1.90	0.53
1:A:183:ASN:O	1:A:187:GLU:HG2	2.10	0.51
1:A:1104:PHE:O	2:B:1:BGC:H4	2.11	0.50
1:A:312:ASN:HD22	1:A:312:ASN:C	2.17	0.46

There are no symmetry-related clashes.

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	440/500 (88%)	433 (98%)	7 (2%)	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	382/428 (89%)	381 (100%)	1 (0%)	92 96

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	312	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

2 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
2	BGC	B	1	2	12,12,12	0.97	1 (8%)	17,17,17	1.40	2 (11%)
2	GLC	B	2	2	11,11,12	1.44	2 (18%)	15,15,17	3.36	7 (46%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BGC	B	1	2	-	2/2/22/22	0/1/1/1
2	GLC	B	2	2	-	2/2/19/22	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	GLC	O2-C2	3.58	1.50	1.43
2	B	1	BGC	O4-C4	2.24	1.48	1.43
2	B	2	GLC	O5-C5	2.18	1.47	1.43

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	GLC	O5-C1-C2	-8.01	98.41	110.77
2	B	2	GLC	C2-C3-C4	-7.08	98.64	110.89
2	B	2	GLC	C1-O5-C5	4.17	117.84	112.19
2	B	1	BGC	O3-C3-C2	-3.63	101.95	110.35
2	B	2	GLC	O2-C2-C1	2.98	115.24	109.15

There are no chirality outliers.

All (4) torsion outliers are listed below:

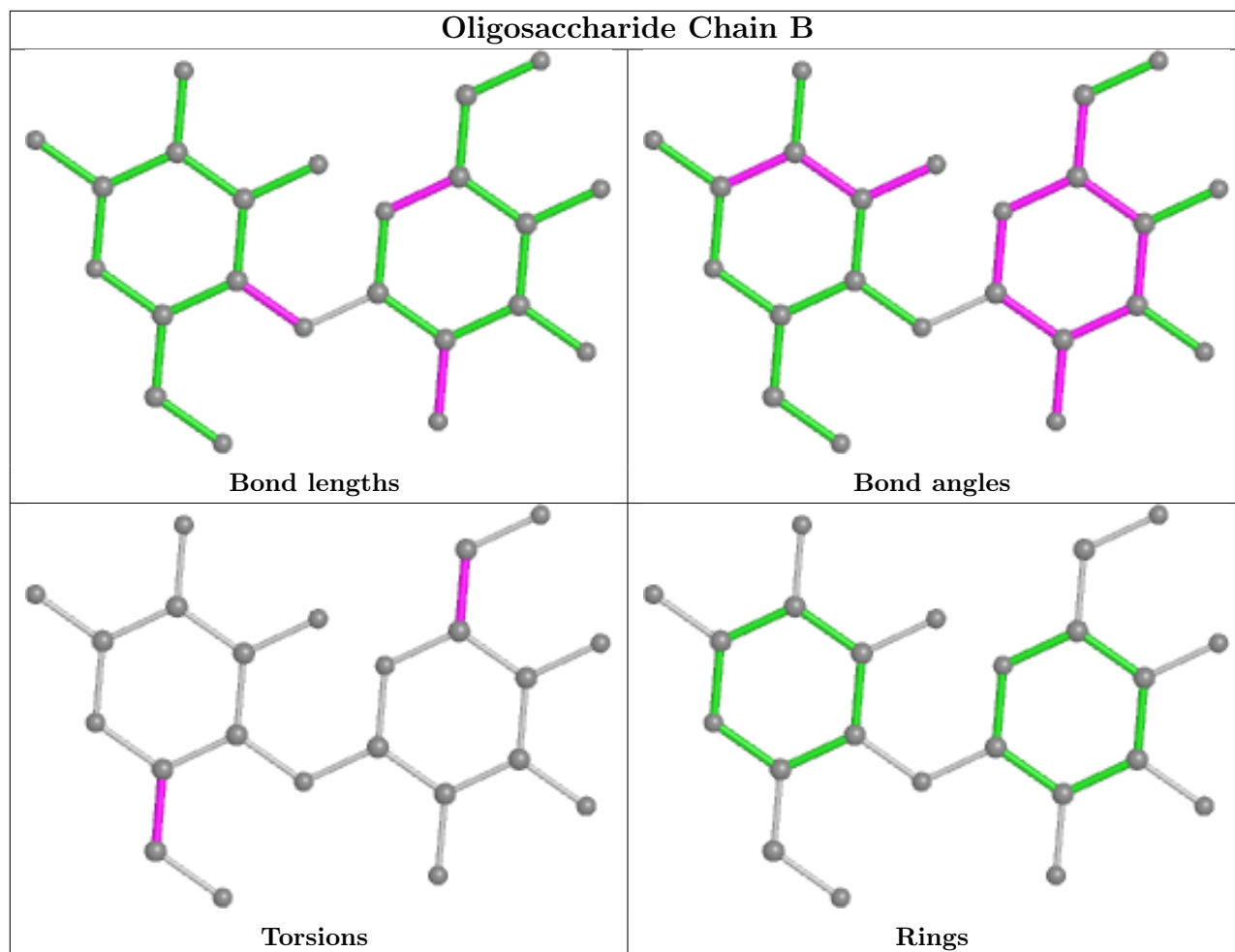
Mol	Chain	Res	Type	Atoms
2	B	2	GLC	O5-C5-C6-O6
2	B	1	BGC	O5-C5-C6-O6
2	B	1	BGC	C4-C5-C6-O6
2	B	2	GLC	C4-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1	BGC	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](#)

15 ligands 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	SO4	A	1205	-	4,4,4	0.14	0	6,6,6	0.07	0
3	SO4	A	1207	-	4,4,4	0.15	0	6,6,6	0.04	0
5	BU1	A	1209	-	5,5,5	0.13	0	4,4,4	0.53	0
3	SO4	A	1203	-	4,4,4	0.14	0	6,6,6	0.05	0
7	CLR	A	1214	-	31,31,31	6.88	16 (51%)	48,48,48	2.18	17 (35%)
8	PLM	A	1215	1	16,16,17	0.49	0	15,15,17	0.70	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	CLR	A	1213	-	31,31,31	6.90	16 (51%)	48,48,48	2.17	19 (39%)
3	SO4	A	1206	-	4,4,4	0.14	0	6,6,6	0.06	0
3	SO4	A	1202	-	4,4,4	0.16	0	6,6,6	0.06	0
3	SO4	A	1204	-	4,4,4	0.14	0	6,6,6	0.07	0
5	BU1	A	1210	-	5,5,5	0.13	0	4,4,4	0.53	0
4	CAU	A	1208	-	22,24,24	0.90	1 (4%)	31,33,33	1.02	2 (6%)
6	ACM	A	1211	1	3,3,3	1.00	0	3,3,3	0.96	0
9	12P	A	1216	-	15,15,36	0.77	1 (6%)	14,14,35	0.36	0
7	CLR	A	1212	-	31,31,31	6.90	17 (54%)	48,48,48	2.16	14 (29%)

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
5	BU1	A	1209	-	-	1/3/3/3	-
7	CLR	A	1214	-	-	7/10/68/68	0/4/4/4
8	PLM	A	1215	1	-	5/13/14/15	-
7	CLR	A	1213	-	-	1/10/68/68	0/4/4/4
4	CAU	A	1208	-	-	1/10/10/10	0/3/3/3
5	BU1	A	1210	-	-	2/3/3/3	-
9	12P	A	1216	-	-	5/13/13/34	-
7	CLR	A	1212	-	-	4/10/68/68	0/4/4/4

The worst 5 of 51 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	1213	CLR	C8-C14	-21.54	1.12	1.53
7	A	1214	CLR	C8-C14	-21.45	1.12	1.53
7	A	1212	CLR	C8-C14	-21.37	1.12	1.53
7	A	1214	CLR	C12-C11	-13.46	1.24	1.53
7	A	1212	CLR	C12-C11	-13.39	1.24	1.53

The worst 5 of 52 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	1214	CLR	C7-C6-C5	-5.72	114.51	125.06
7	A	1212	CLR	C14-C8-C9	5.17	116.02	109.09
7	A	1212	CLR	C7-C6-C5	-4.93	115.97	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	1213	CLR	C7-C6-C5	-4.89	116.05	125.06
7	A	1214	CLR	C12-C13-C14	4.63	114.45	107.27

There are no chirality outliers.

5 of 26 torsion outliers are listed below:

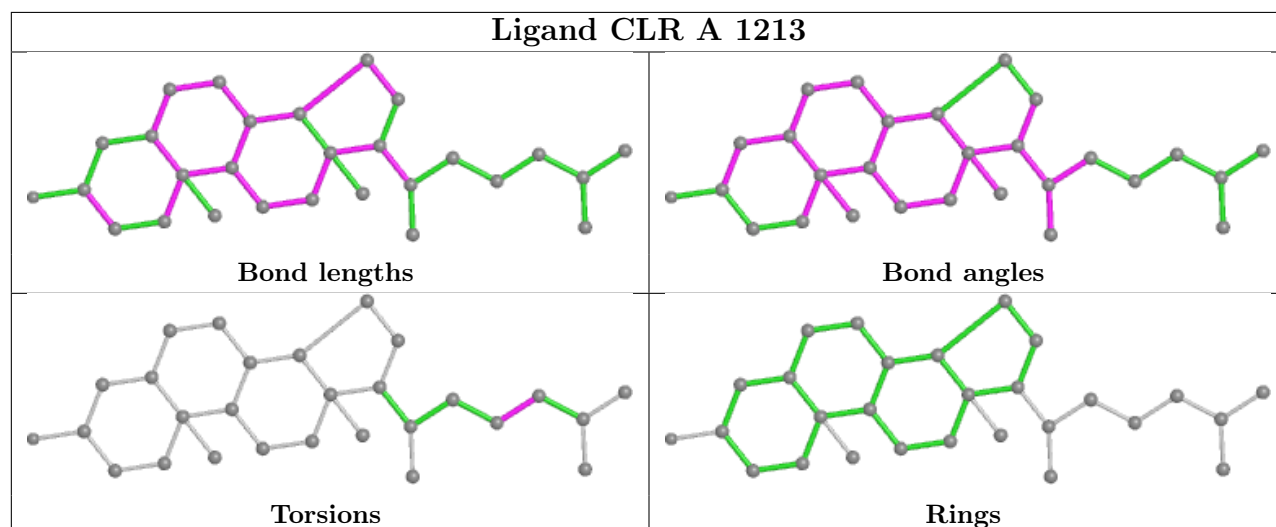
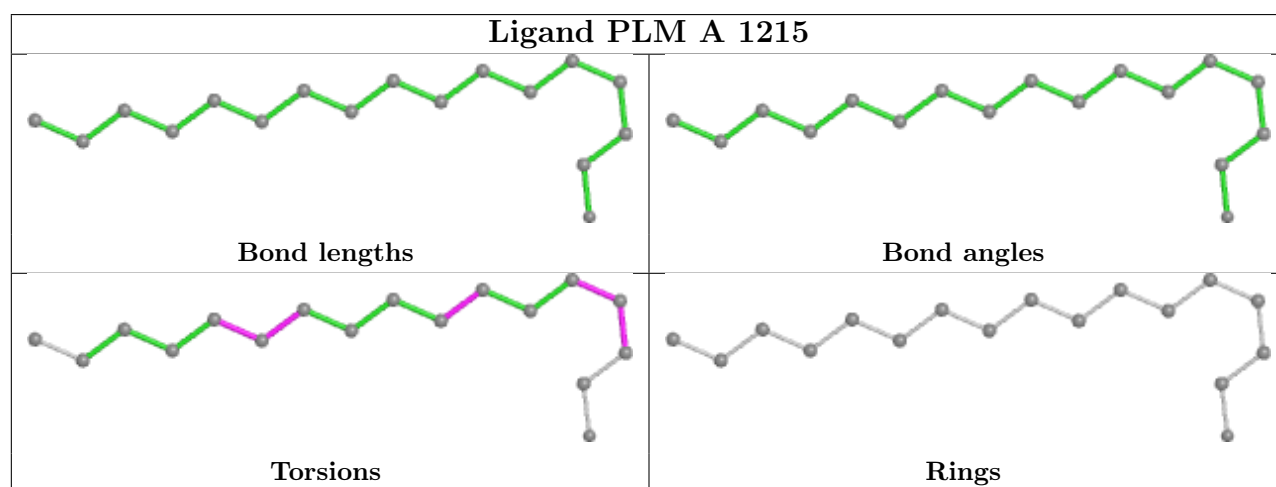
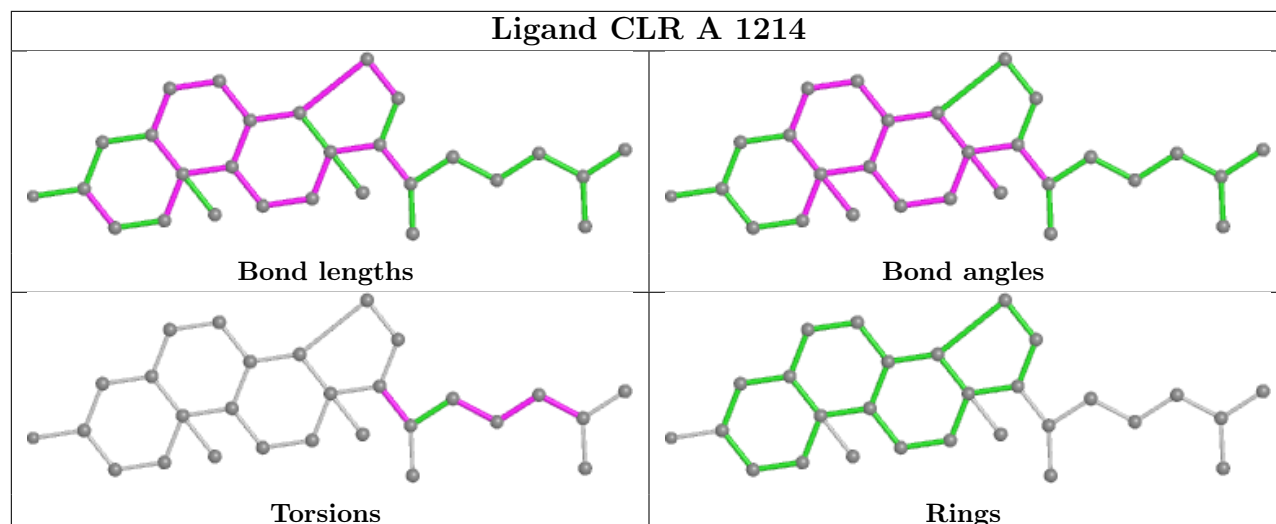
Mol	Chain	Res	Type	Atoms
8	A	1215	PLM	C1-C2-C3-C4
9	A	1216	12P	O16-C17-C18-O19
7	A	1212	CLR	C22-C23-C24-C25
7	A	1212	CLR	C21-C20-C22-C23
7	A	1212	CLR	C23-C24-C25-C26

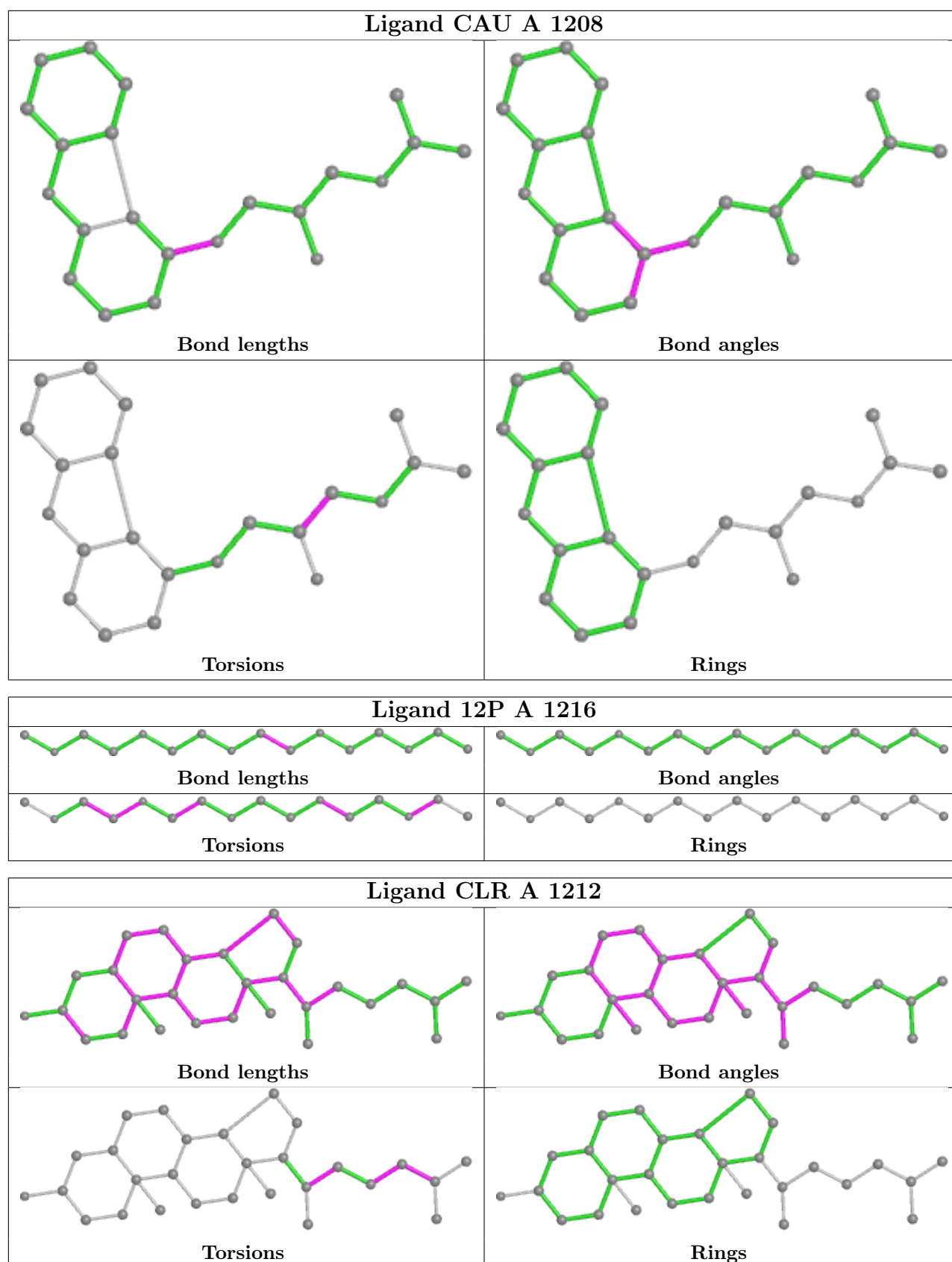
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	A	1214	CLR	1	0
7	A	1212	CLR	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 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 [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	442/500 (88%)	-0.09	4 (0%) 84 75	46, 64, 85, 103	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	29	ASP	6.6
1	A	30	GLU	4.1
1	A	31	VAL	3.5
1	A	142	GLN	2.2

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

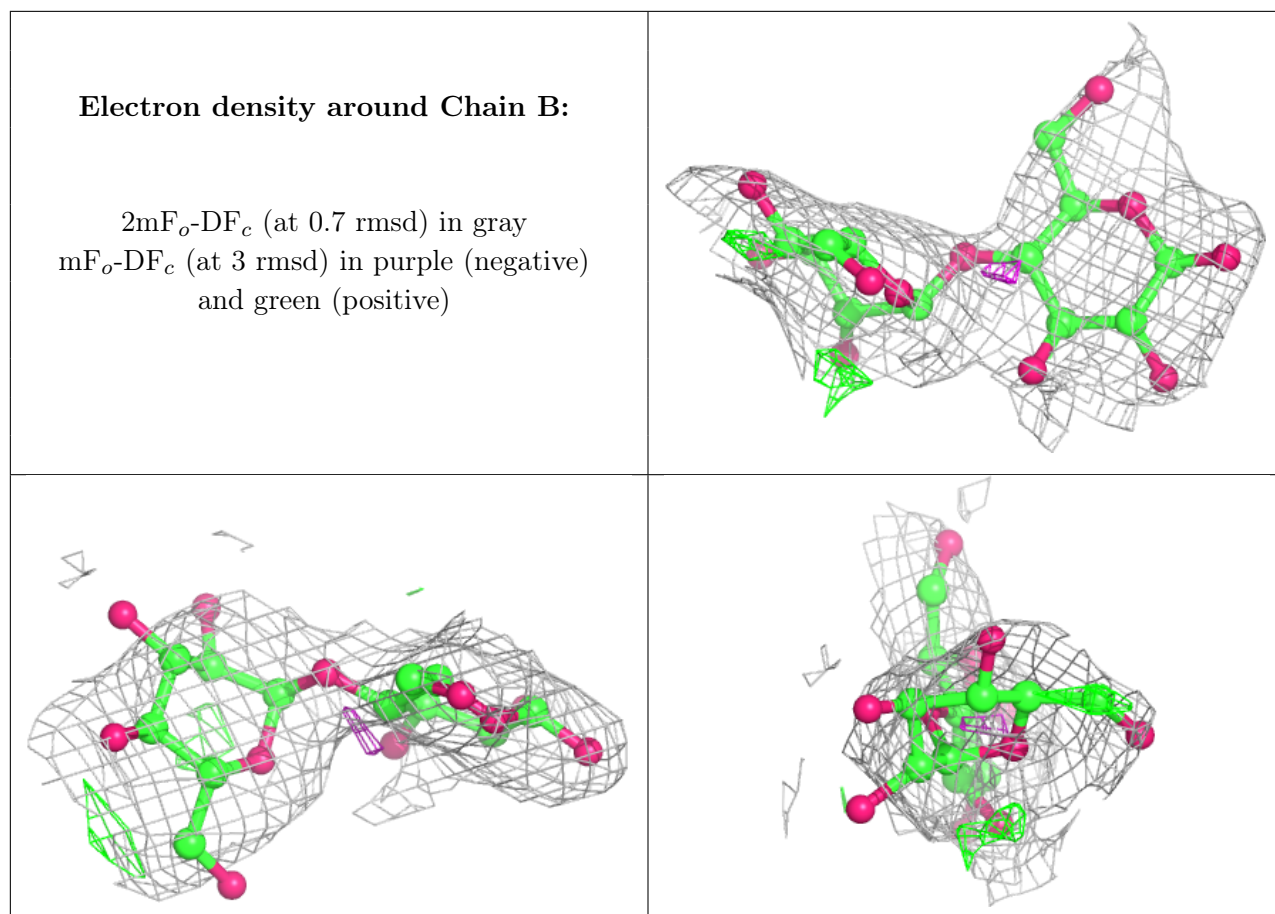
There are no non-standard protein/DNA/RNA residues in this entry.

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
2	GLC	B	2	11/12	0.68	0.37	86,91,94,94	0
2	BGC	B	1	12/12	0.79	0.26	76,93,102,103	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.



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.

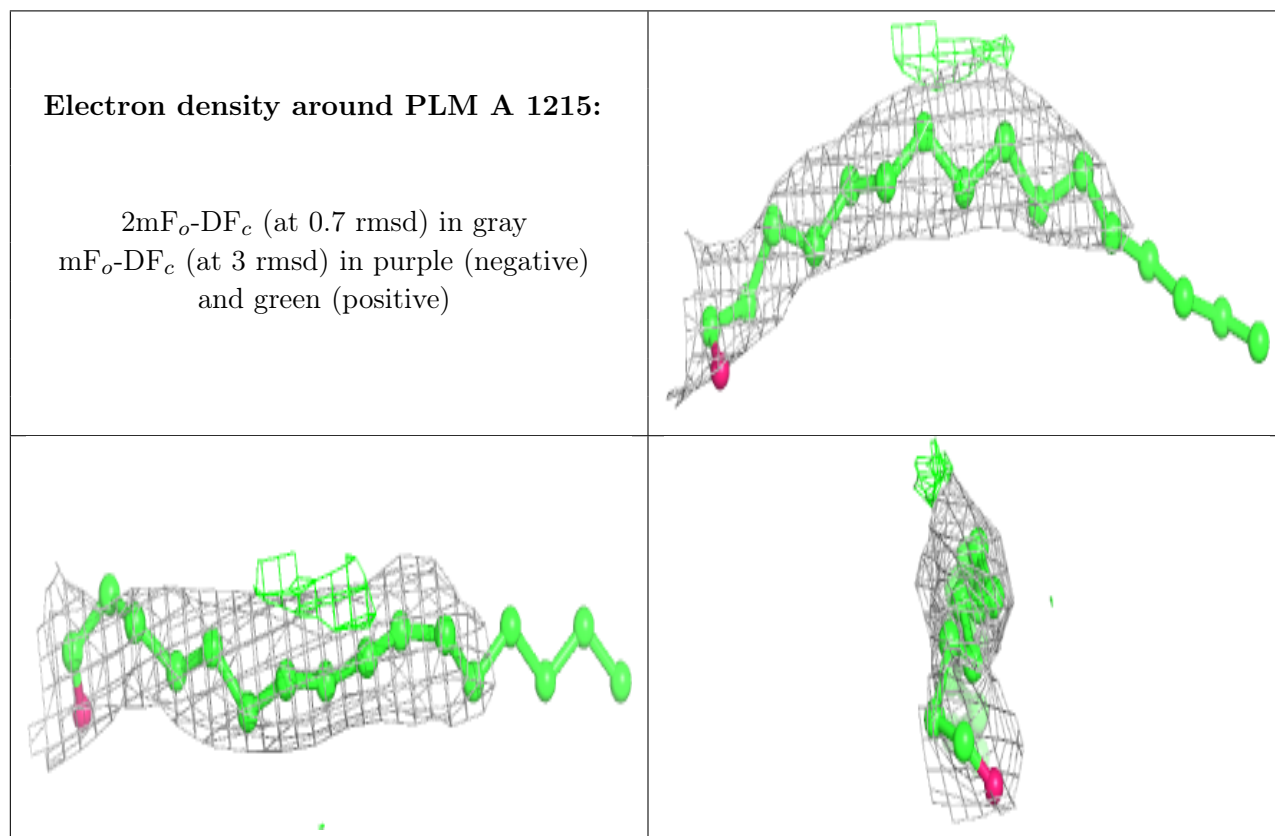
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
8	PLM	A	1215	17/18	0.75	0.56	75,83,102,102	0
3	SO4	A	1206	5/5	0.77	0.36	105,106,122,131	0
9	12P	A	1216	16/37	0.85	0.48	76,83,90,92	0
7	CLR	A	1214	28/28	0.87	0.47	89,99,104,105	0
7	CLR	A	1212	28/28	0.90	0.36	75,83,90,96	0
3	SO4	A	1203	5/5	0.90	0.17	68,79,82,92	0
5	BU1	A	1209	6/6	0.90	0.35	42,49,53,60	0
5	BU1	A	1210	6/6	0.90	0.27	61,67,75,78	0
7	CLR	A	1213	28/28	0.91	0.43	75,85,91,95	0
3	SO4	A	1207	5/5	0.91	0.29	85,93,118,124	0
6	ACM	A	1211	4/4	0.93	0.54	65,66,70,77	0
4	CAU	A	1208	22/22	0.95	0.21	55,61,68,68	0

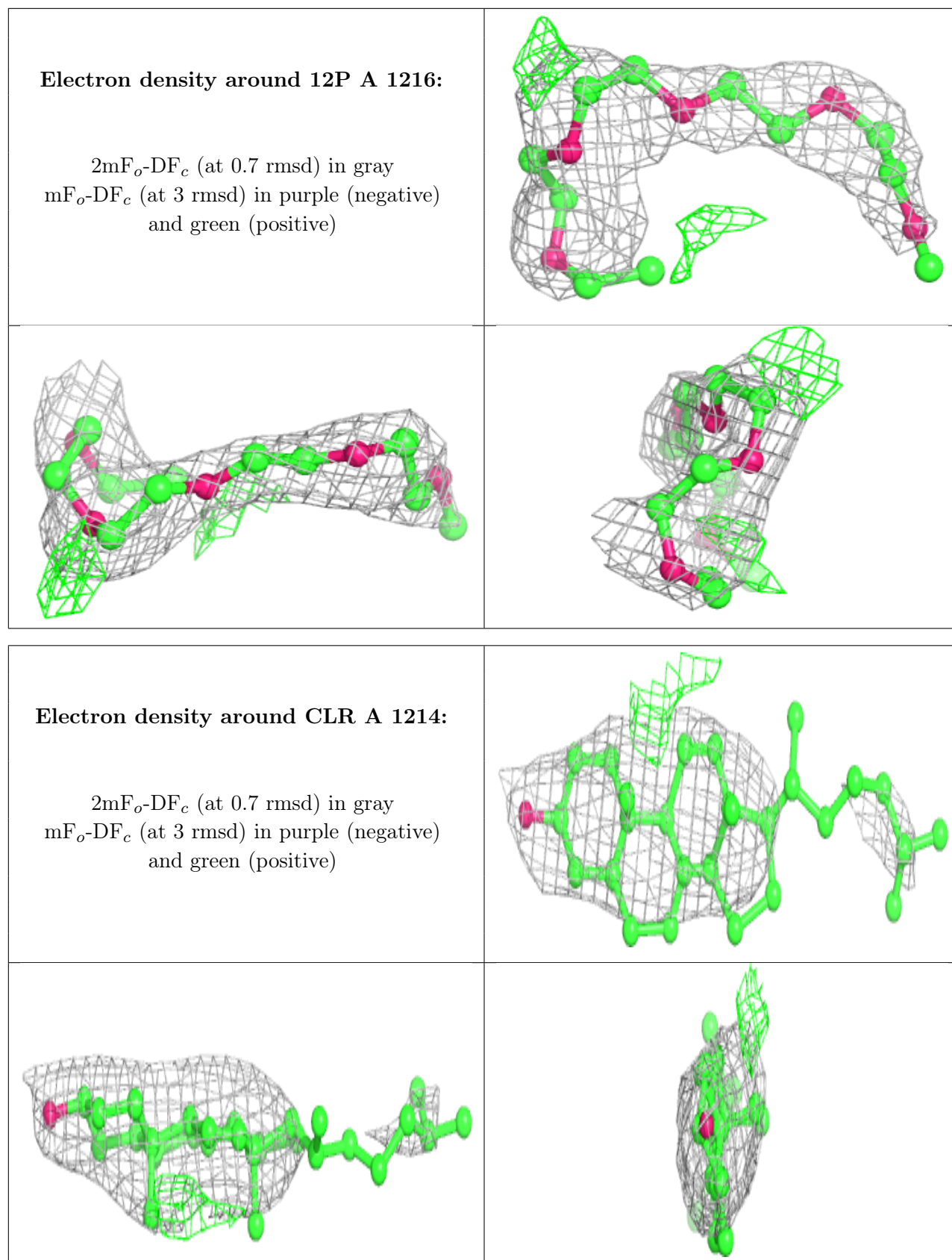
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	SO4	A	1204	5/5	0.95	0.12	71,71,82,85	0
3	SO4	A	1205	5/5	0.95	0.17	66,69,71,78	0
3	SO4	A	1202	5/5	0.96	0.17	67,75,78,82	0

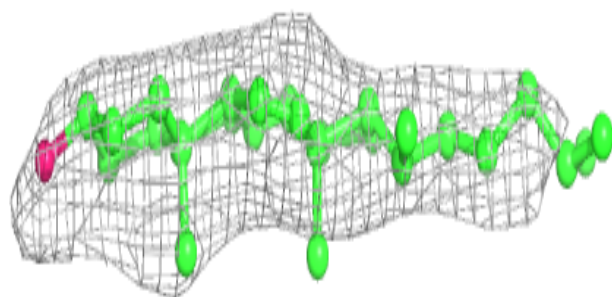
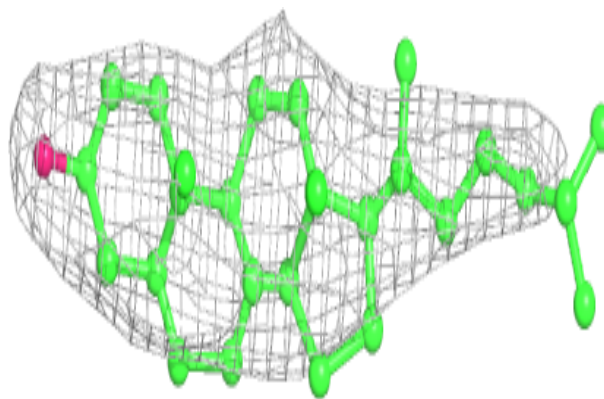
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



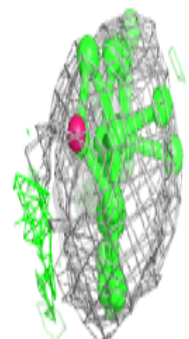
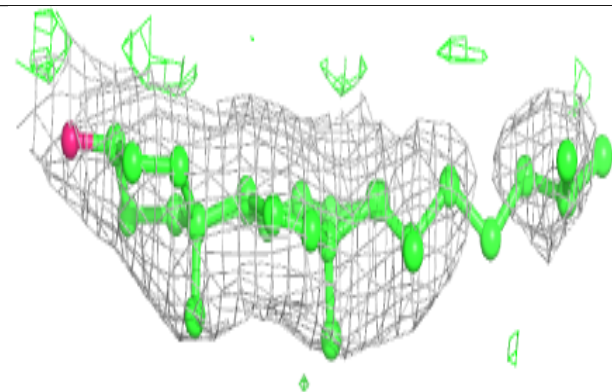
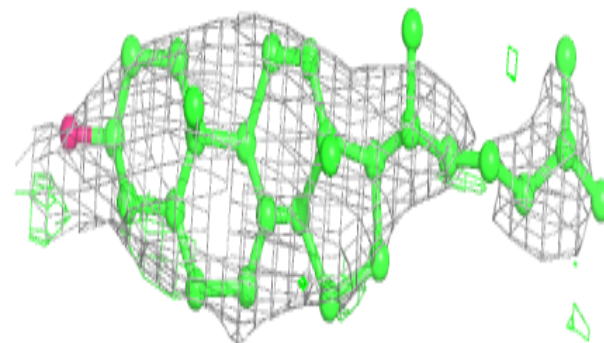


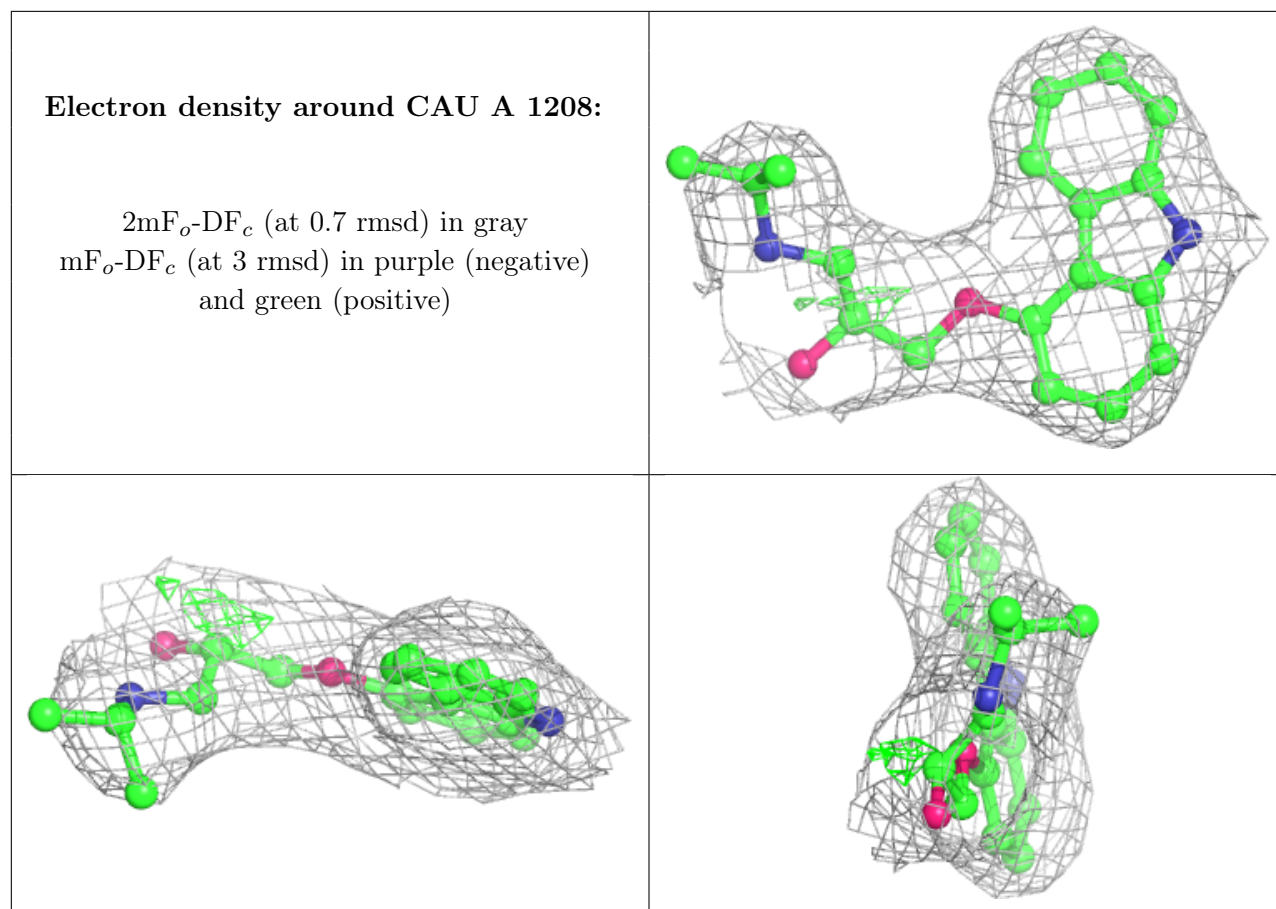
Electron density around CLR A 1212:

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

**Electron density around CLR A 1213:**

$2mF_o-DF_c$ (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.