



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 01:36 pm BST

PDB ID : 6PS0
Title : XFEL beta2 AR structure by ligand exchange from Alprenolol to Carazolol.
Authors : Ishchenko, A.; Stauch, B.; Han, G.W.; Batyuk, A.; Shiriaeva, A.; Li, C.;
Zatsepin, N.A.; Weierstall, U.; Liu, W.; Nango, E.; Nakane, T.; Tanaka, R.;
Tono, K.; Joti, Y.; Iwata, S.; Moraes, I.; Gati, C.; Cherezov, C.
Deposited on : 2019-07-12
Resolution : 3.40 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 : 2.11
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) : 2.11

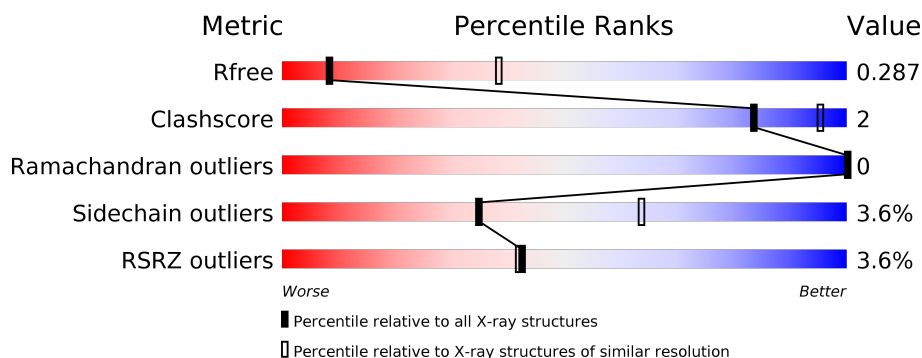
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 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	1026 (3.48-3.32)
Clashscore	141614	1055 (3.48-3.32)
Ramachandran outliers	138981	1038 (3.48-3.32)
Sidechain outliers	138945	1038 (3.48-3.32)
RSRZ outliers	127900	2173 (3.50-3.30)

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	506	

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
5	OLC	A	1206	-	-	-	X
5	OLC	A	1207	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	OLC	A	1208	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3551 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 Fusion protein of Beta-2 adrenergic receptor and T4 Lysozyme.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	440	Total	C	N	O	S	0	0	0
			3446	2256	573	594	23			

There are 36 discrepancies between the modelled and reference sequences:

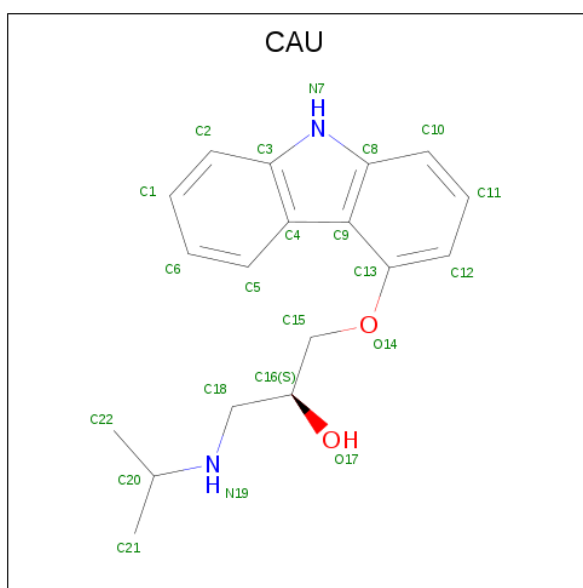
Chain	Residue	Modelled	Actual	Comment	Reference
A	-23	MET	-	initiating methionine	UNP P07550
A	-22	LYS	-	expression tag	UNP P07550
A	-21	THR	-	expression tag	UNP P07550
A	-20	ILE	-	expression tag	UNP P07550
A	-19	ILE	-	expression tag	UNP P07550
A	-18	ALA	-	expression tag	UNP P07550
A	-17	LEU	-	expression tag	UNP P07550
A	-16	SER	-	expression tag	UNP P07550
A	-15	TYR	-	expression tag	UNP P07550
A	-14	ILE	-	expression tag	UNP P07550
A	-13	PHE	-	expression tag	UNP P07550
A	-12	CYS	-	expression tag	UNP P07550
A	-11	LEU	-	expression tag	UNP P07550
A	-10	VAL	-	expression tag	UNP P07550
A	-9	PHE	-	expression tag	UNP P07550
A	-8	ALA	-	expression tag	UNP P07550
A	-7	ASP	-	expression tag	UNP P07550
A	-6	TYR	-	expression tag	UNP P07550
A	-5	LYS	-	expression tag	UNP P07550
A	-4	ASP	-	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	variant	UNP P07550
A	27	GLN	GLU	variant	UNP P07550
A	122	TRP	GLU	engineered mutation	UNP P07550

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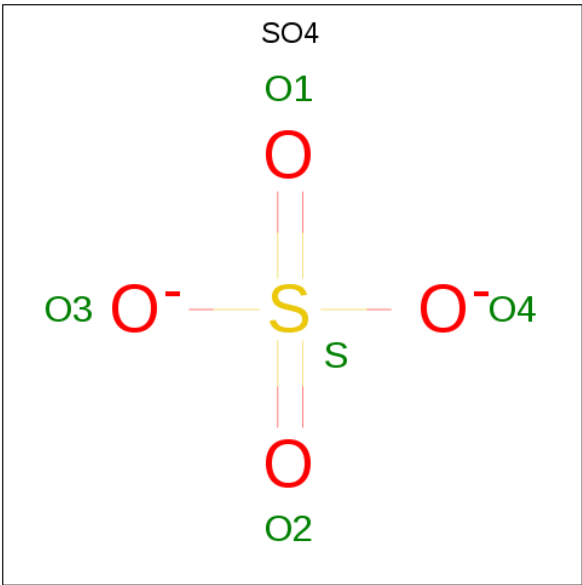
Chain	Residue	Modelled	Actual	Comment	Reference
A	187	GLU	ASN	engineered mutation	UNP P07550
A	1054	THR	CYS	engineered mutation	UNP D9IEF7
A	1097	ALA	CYS	engineered mutation	UNP D9IEF7
A	349	HIS	-	expression tag	UNP P07550
A	350	HIS	-	expression tag	UNP P07550
A	351	HIS	-	expression tag	UNP P07550
A	352	HIS	-	expression tag	UNP P07550
A	353	HIS	-	expression tag	UNP P07550
A	354	HIS	-	expression tag	UNP P07550

- Molecule 2 is (2S)-1-(9H-Carbazol-4-yloxy)-3-(isopropylamino)propan-2-ol (three-letter code: CAU) (formula: C₁₈H₂₂N₂O₂) (labeled as "Ligand of Interest" by author).



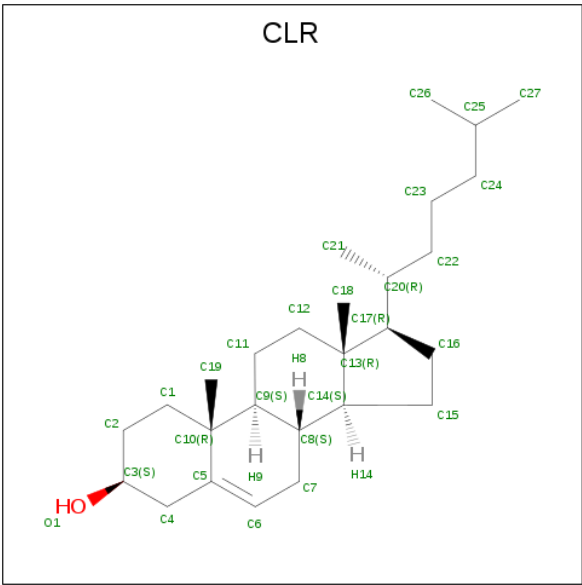
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			22	18	2	2		

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



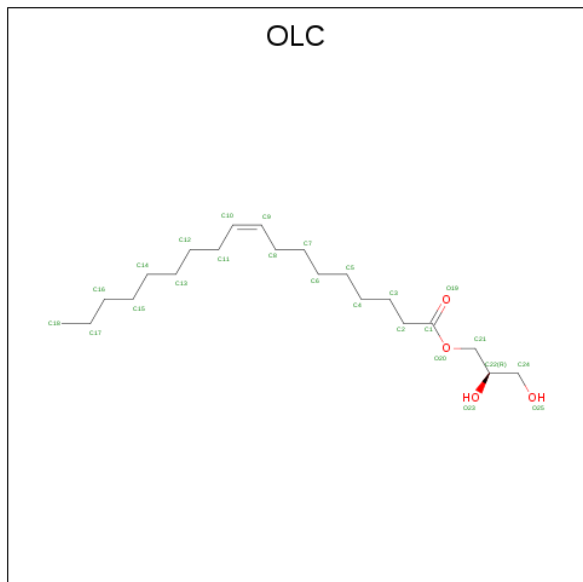
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is CHOLESTEROL (three-letter code: CLR) (formula: C₂₇H₄₆O).



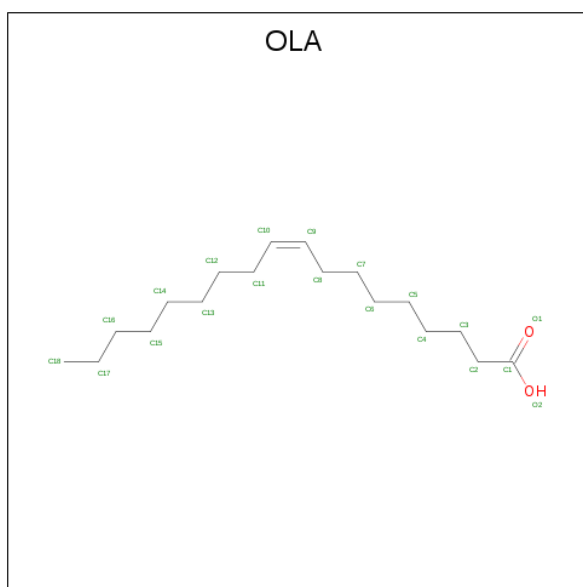
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			28	27	1		

- Molecule 5 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLC) (formula: $C_{21}H_{40}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			13	9	4		
5	A	1	Total	C	O	0	0
			10	6	4		
5	A	1	Total	C	O	0	0
			13	9	4		

- Molecule 6 is OLEIC ACID (three-letter code: OLA) (formula: $C_{18}H_{34}O_2$).



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

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	41.54Å 75.80Å 170.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.70 – 3.40 29.74 – 3.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (29.70-3.40) 99.9 (29.74-3.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.02 (at 3.39Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.208 , 0.260 0.235 , 0.287	Depositor DCC
R_{free} test set	393 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	114.3	Xtriage
Anisotropy	0.327	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 89.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3551	wwPDB-VP
Average B, all atoms (Å ²)	118.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.28% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: OLA, CAU, OLC, SO4, CLR

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	0.45	0/3527	0.61	0/4805

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

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	3446	0	3435	17	0
2	A	22	0	22	0	0
3	A	15	0	0	0	0
4	A	28	0	46	0	0
5	A	36	0	39	0	0
6	A	4	0	4	1	0
All	All	3551	0	3546	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.

All (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:1091:LEU:HD22	1:A:1095:ARG:HB3	1.81	0.62
1:A:131:ARG:HB3	1:A:222:VAL:HG11	1.85	0.58
1:A:203:SER:O	1:A:207:SER:HB2	2.03	0.58
1:A:288:PRO:HB2	1:A:311:LEU:HD22	1.86	0.56
1:A:1024:TYR:HB3	1:A:1035:LYS:HA	1.87	0.56
1:A:1114:PHE:HB3	1:A:1117:SER:HB2	1.90	0.54
1:A:168:PRO:HB2	1:A:199:TYR:HE1	1.71	0.54
1:A:1024:TYR:HB2	1:A:1032:LEU:HD21	1.94	0.50
1:A:115:LEU:HD13	1:A:162:GLY:HA2	1.96	0.48
1:A:205:ILE:HA	1:A:209:TYR:HB2	1.96	0.47
1:A:67:VAL:HG13	1:A:150:ALA:HB2	1.97	0.46
1:A:1050:ILE:HG22	1:A:1052:ARG:HG2	1.98	0.46
1:A:296:HIS:HA	1:A:299:GLN:O	2.15	0.46
1:A:167:LEU:O	1:A:171:MET:HB2	2.16	0.44
1:A:139:PHE:HB3	1:A:142:GLN:HB2	2.00	0.43
1:A:218:VAL:HG22	6:A:1209:OLA:H42	1.99	0.42
1:A:313:TRP:O	1:A:317:VAL:HG23	2.21	0.40

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	438/506 (87%)	421 (96%)	17 (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	358/438 (82%)	345 (96%)	13 (4%)	35	63

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	62	GLU
1	A	155	LEU
1	A	177	THR
1	A	1008	ARG
1	A	1013	LEU
1	A	1032	LEU
1	A	1047	ASP
1	A	1144	ASN
1	A	1157	THR
1	A	294	ILE
1	A	299	GLN
1	A	312	ASN
1	A	334	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	GLN
1	A	299	GLN
1	A	301	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

9 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
6	OLA	A	1209	-	3,3,19	0.42	0	2,2,19	0.55	0
4	CLR	A	1205	-	31,31,31	0.59	0	48,48,48	1.57	8 (16%)
3	SO4	A	1203	-	4,4,4	0.15	0	6,6,6	0.14	0
3	SO4	A	1204	-	4,4,4	0.13	0	6,6,6	0.18	0
5	OLC	A	1207	-	9,9,24	0.45	0	10,10,25	1.58	2 (20%)
5	OLC	A	1206	-	12,12,24	0.40	0	13,13,25	1.15	1 (7%)
3	SO4	A	1202	-	4,4,4	0.20	0	6,6,6	0.07	0
2	CAU	A	1201	-	22,24,24	0.88	0	31,33,33	0.96	2 (6%)
5	OLC	A	1208	-	12,12,24	0.40	0	13,13,25	1.14	1 (7%)

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	OLA	A	1209	-	-	0/1/1/17	-
4	CLR	A	1205	-	-	10/10/68/68	0/4/4/4
5	OLC	A	1207	-	-	4/9/9/24	-
5	OLC	A	1206	-	-	6/12/12/24	-
2	CAU	A	1201	-	-	7/10/10/10	0/3/3/3
5	OLC	A	1208	-	-	4/12/12/24	-

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1205	CLR	C4-C5-C10	5.37	123.55	116.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1205	CLR	C4-C5-C6	-3.72	115.25	120.61
5	A	1207	OLC	O20-C1-C2	3.55	120.69	111.38
4	A	1205	CLR	C17-C13-C14	-2.97	96.55	100.07
5	A	1208	OLC	O20-C1-C2	2.74	120.52	111.91
4	A	1205	CLR	C7-C6-C5	-2.72	120.03	125.06
5	A	1206	OLC	O20-C1-C2	2.68	120.33	111.91
2	A	1201	CAU	O14-C13-C9	2.42	120.54	117.11
5	A	1207	OLC	O20-C1-O19	-2.21	118.02	123.59
4	A	1205	CLR	C16-C15-C14	-2.19	100.78	105.13
4	A	1205	CLR	C13-C14-C8	2.19	117.62	114.38
4	A	1205	CLR	C8-C7-C6	-2.18	109.60	112.73
2	A	1201	CAU	O14-C13-C12	-2.17	119.67	124.46
4	A	1205	CLR	C2-C1-C10	2.09	117.26	112.74

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1207	OLC	O20-C21-C22-C24
5	A	1207	OLC	O20-C21-C22-O23
2	A	1201	CAU	O14-C15-C16-C18
5	A	1207	OLC	C2-C1-O20-C21
5	A	1207	OLC	O19-C1-O20-C21
5	A	1208	OLC	C2-C1-O20-C21
2	A	1201	CAU	C9-C13-O14-C15
5	A	1208	OLC	O19-C1-O20-C21
2	A	1201	CAU	C12-C13-O14-C15
2	A	1201	CAU	O14-C15-C16-O17
4	A	1205	CLR	C20-C22-C23-C24
4	A	1205	CLR	C17-C20-C22-C23
4	A	1205	CLR	C21-C20-C22-C23
4	A	1205	CLR	C23-C24-C25-C26
5	A	1206	OLC	C2-C3-C4-C5
4	A	1205	CLR	C23-C24-C25-C27
5	A	1206	OLC	C3-C4-C5-C6
4	A	1205	CLR	C16-C17-C20-C21
4	A	1205	CLR	C16-C17-C20-C22
5	A	1208	OLC	O20-C21-C22-O23
4	A	1205	CLR	C22-C23-C24-C25
2	A	1201	CAU	O17-C16-C18-N19
4	A	1205	CLR	C13-C17-C20-C21
5	A	1206	OLC	O23-C22-C24-O25

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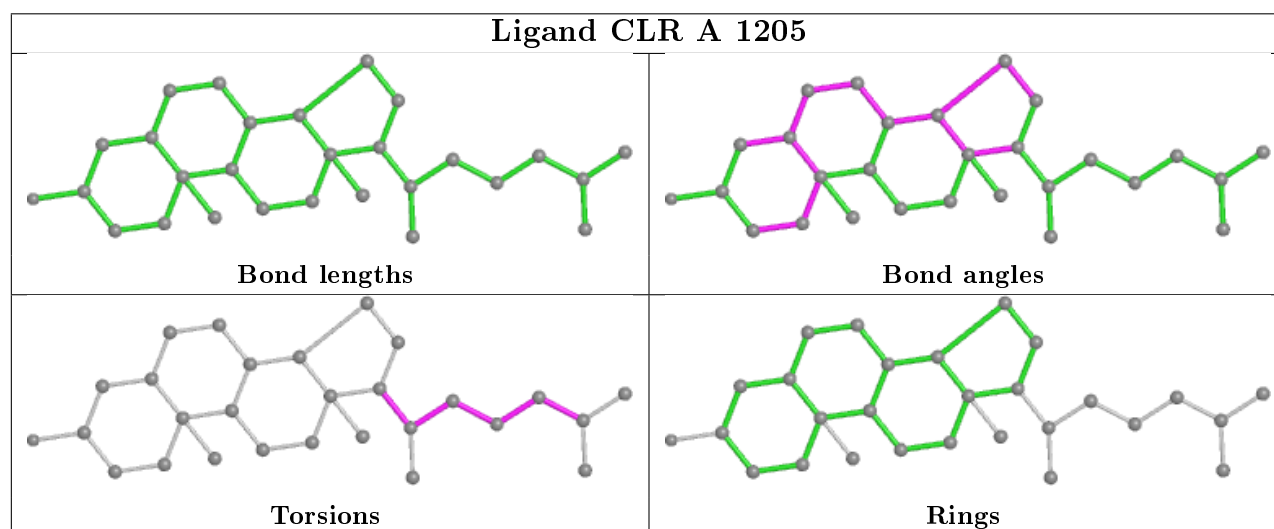
Mol	Chain	Res	Type	Atoms
4	A	1205	CLR	C13-C17-C20-C22
5	A	1206	OLC	C21-C22-C24-O25
2	A	1201	CAU	C21-C20-N19-C18
2	A	1201	CAU	C22-C20-N19-C18
5	A	1206	OLC	C2-C1-O20-C21
5	A	1208	OLC	C2-C3-C4-C5
5	A	1206	OLC	O19-C1-O20-C21

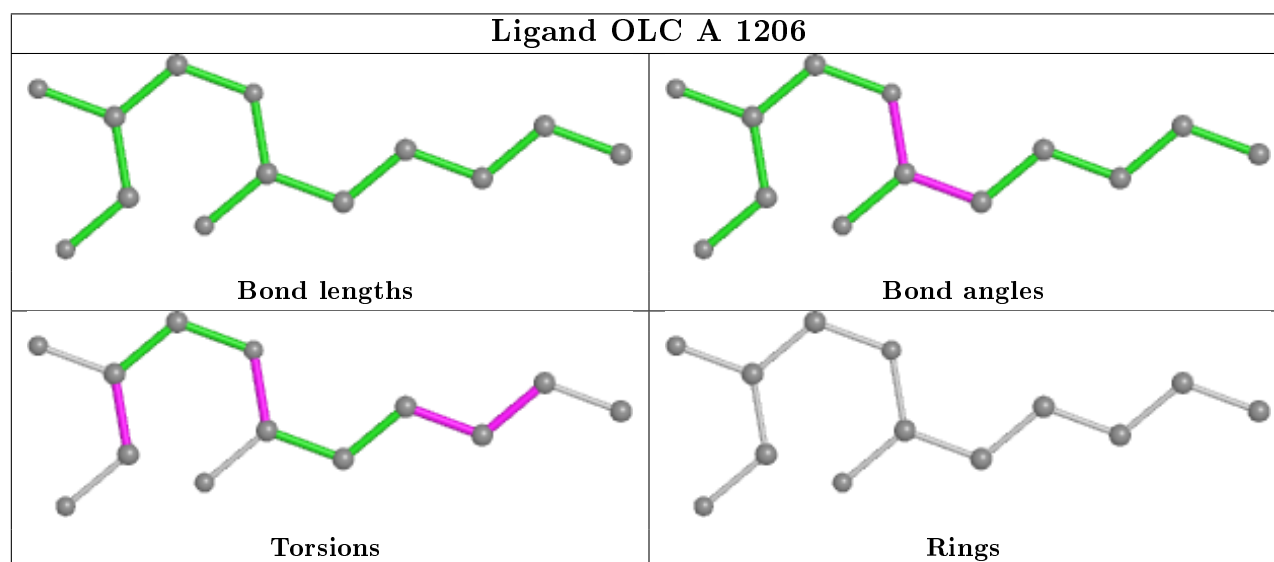
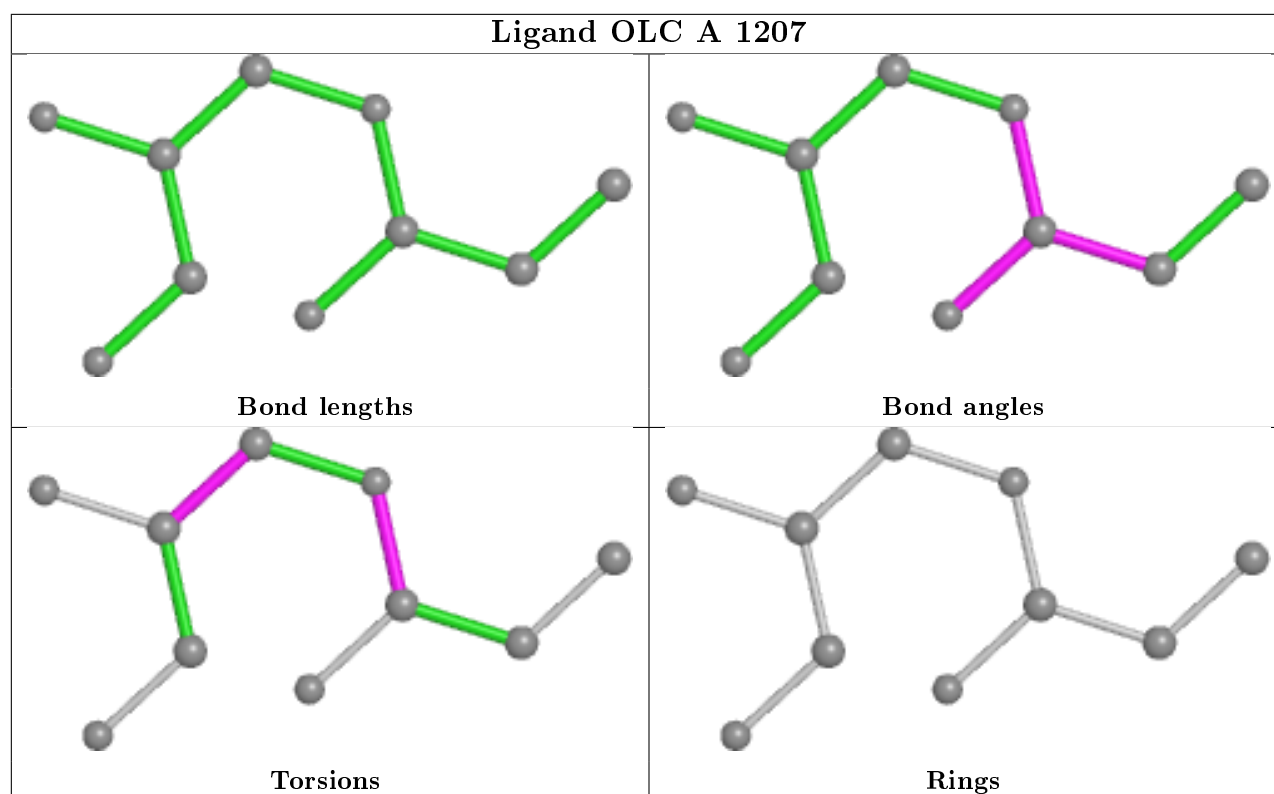
There are no ring outliers.

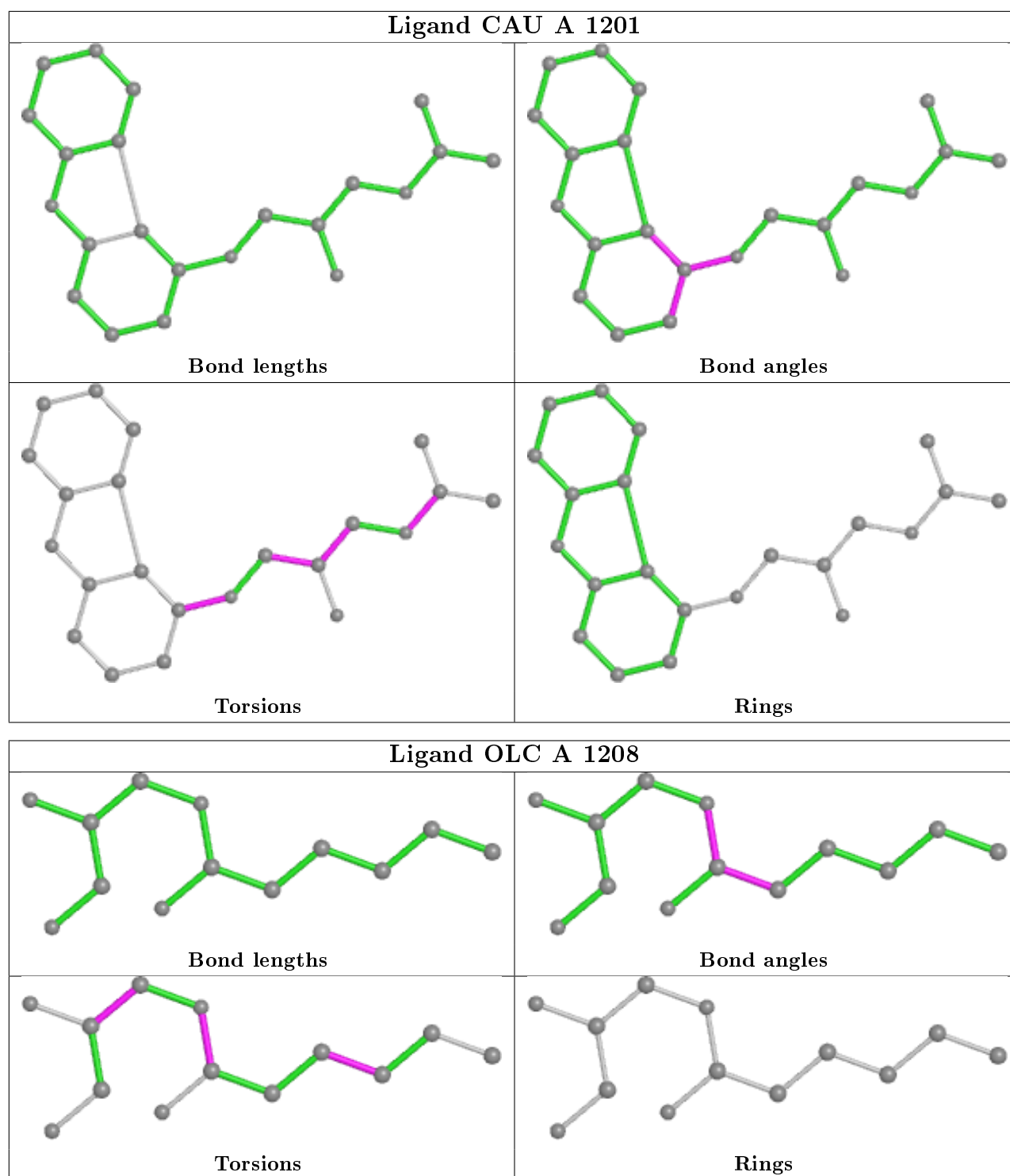
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	1209	OLA	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 ⓘ

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	440/506 (86%)	0.12	16 (3%) 42 42	85, 113, 158, 181	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1053	ASN	3.8
1	A	1057	VAL	3.4
1	A	1027	ILE	2.8
1	A	1046	LEU	2.8
1	A	1049	ALA	2.7
1	A	1017	ILE	2.7
1	A	120	SER	2.6
1	A	1015	LEU	2.5
1	A	1050	ILE	2.3
1	A	1022	GLU	2.3
1	A	116	CYS	2.2
1	A	302	LEU	2.2
1	A	318	ASN	2.2
1	A	1016	LYS	2.2
1	A	1054	THR	2.1
1	A	79	ASP	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](#)

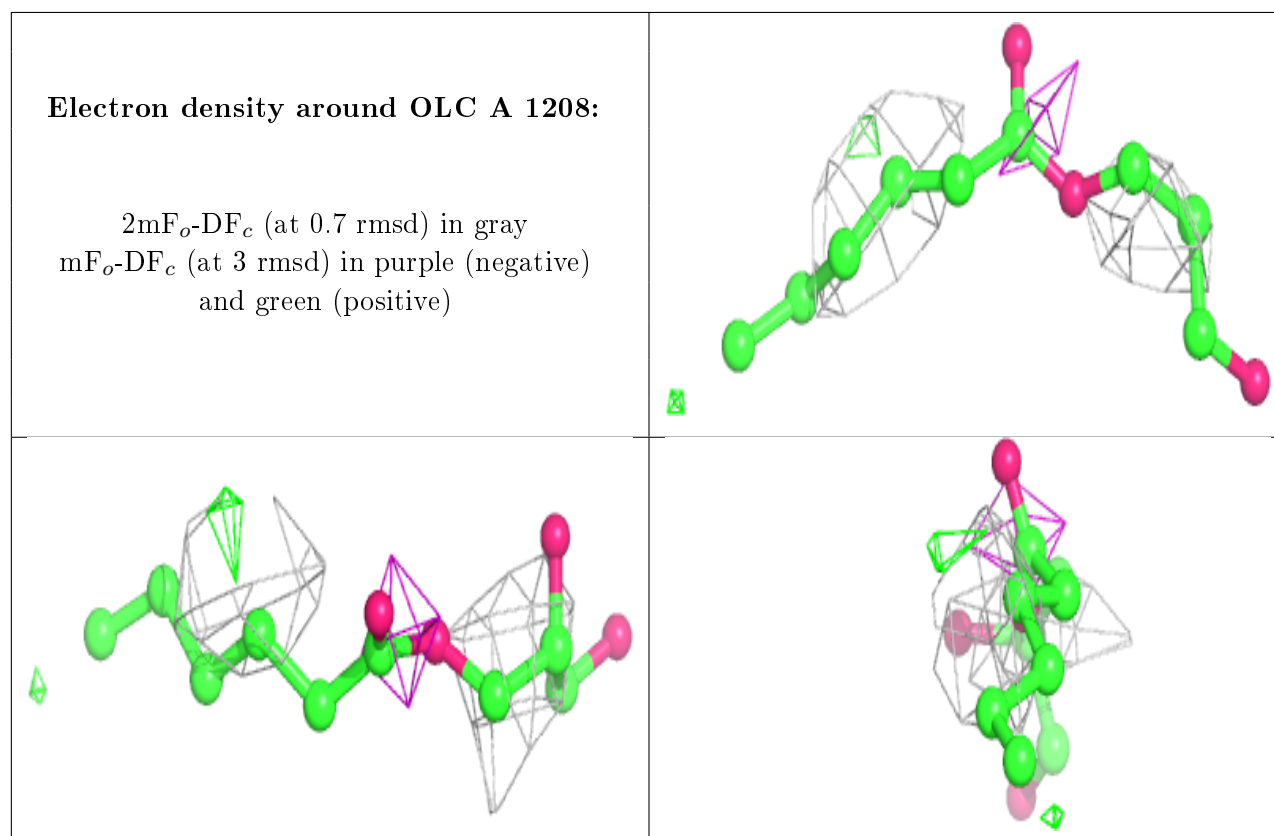
There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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.

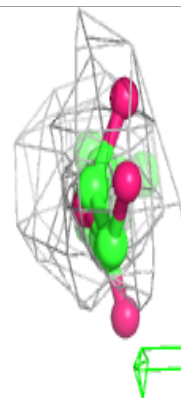
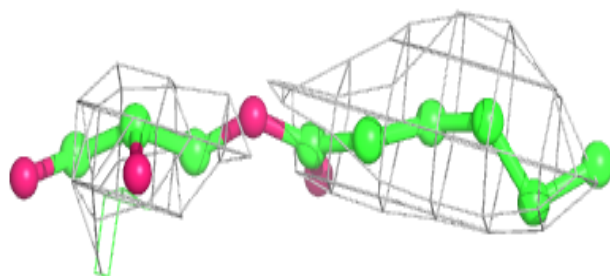
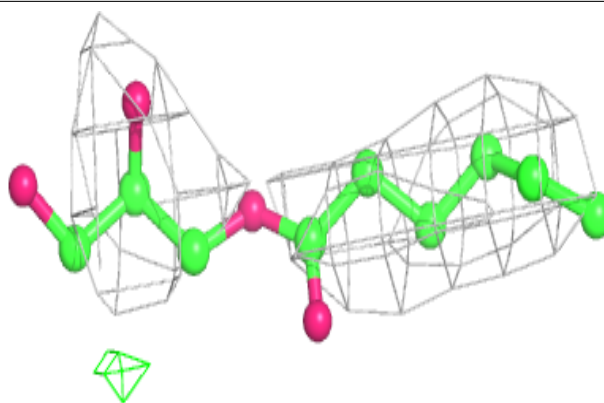
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	OLC	A	1208	13/25	0.43	0.88	138,143,146,147	0
5	OLC	A	1206	13/25	0.67	0.54	127,143,150,151	0
5	OLC	A	1207	10/25	0.73	0.54	111,115,117,119	0
6	OLA	A	1209	4/20	0.81	0.27	63,66,67,67	0
3	SO4	A	1204	5/5	0.83	0.19	175,175,176,176	0
4	CLR	A	1205	28/28	0.88	0.45	130,141,145,145	0
2	CAU	A	1201	22/22	0.89	0.29	114,123,124,124	0
3	SO4	A	1203	5/5	0.90	0.26	198,198,198,198	0
3	SO4	A	1202	5/5	0.94	0.20	123,123,123,123	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.

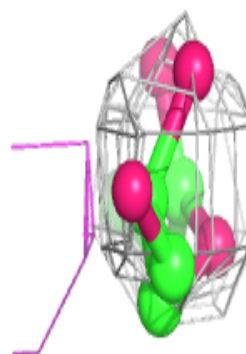
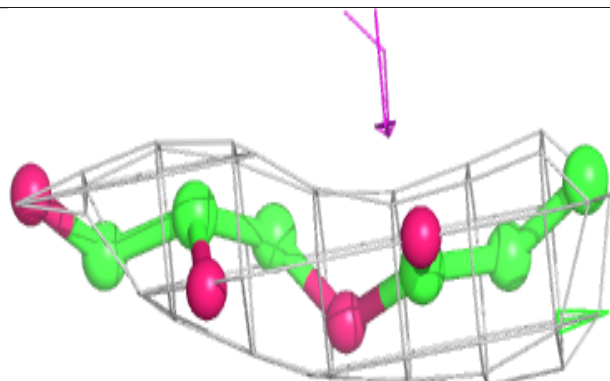
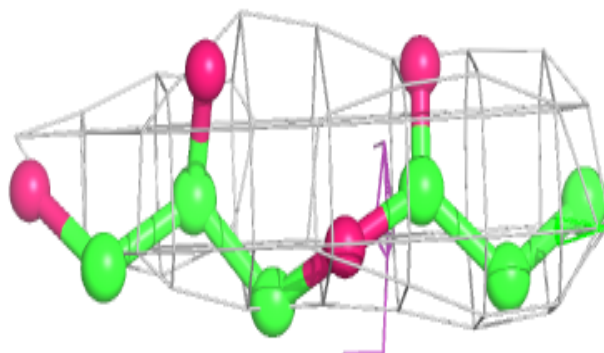


Electron density around OLC A 1206:

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

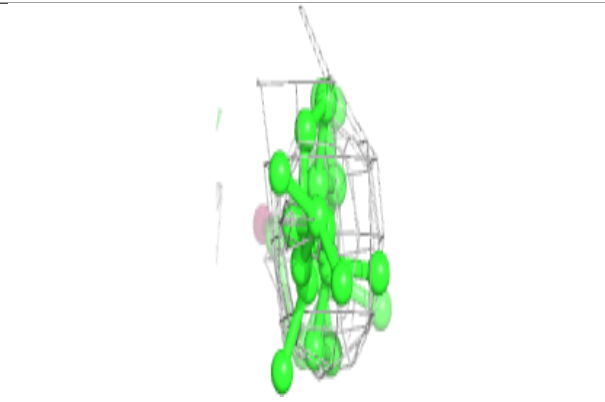
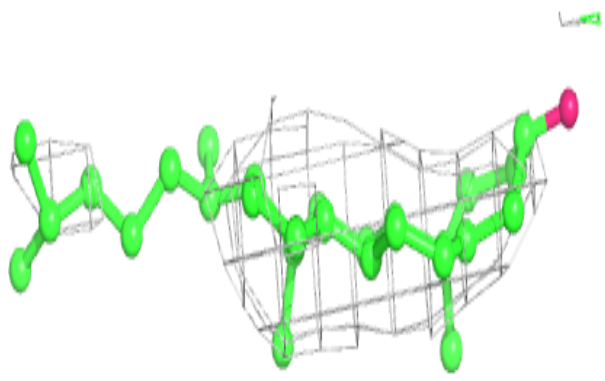
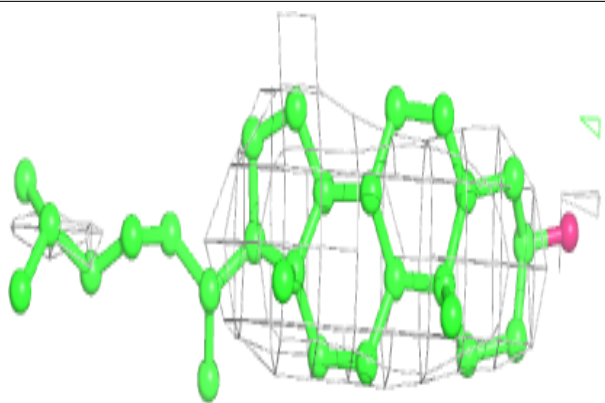
**Electron density around OLC A 1207:**

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

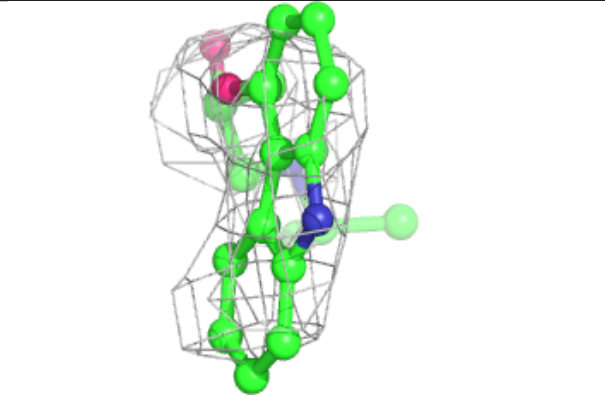
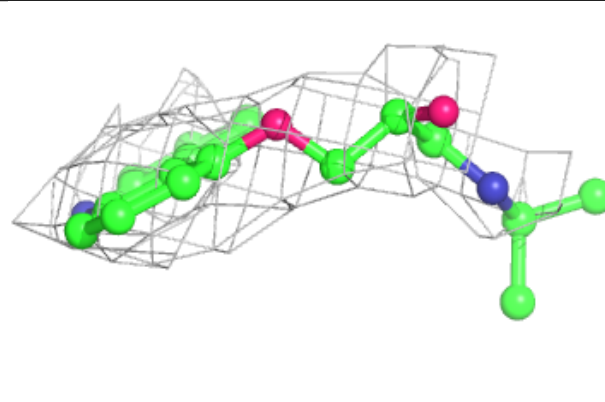
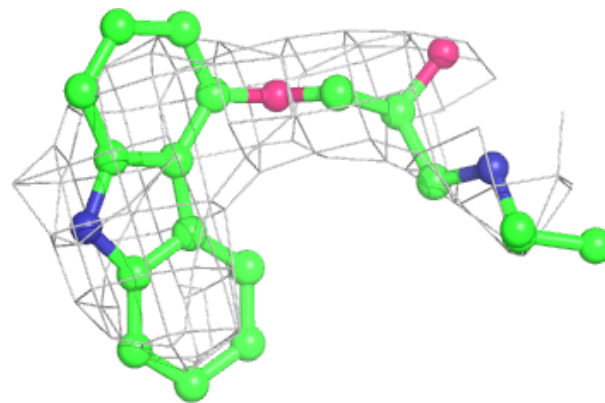


Electron density around CLR A 1205:

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

**Electron density around CAU A 1201:**

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



6.5 Other polymers ⓘ

There are no such residues in this entry.