Full wwPDB X-ray Structure Validation Report (i)

Oct 7, 2023 – 07:53 PM EDT

PDB ID	:	6DRZ
Title	:	Structural Determinants of Activation and Biased Agonism at the 5-HT2B Receptor
Authors	:	McCorvy, J.D.; Wacker, D.; Wang, S.; Agegnehu, B.; Liu, J.; Lansu, K.; Tribo, A.R.; Olsen, R.H.J.; Che, T.; Jin, J.; Roth, B.L.
Deposited on	:	2018-06-13
Resolution	:	3.10 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 (i) 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 (i)) were used in the production of this report:

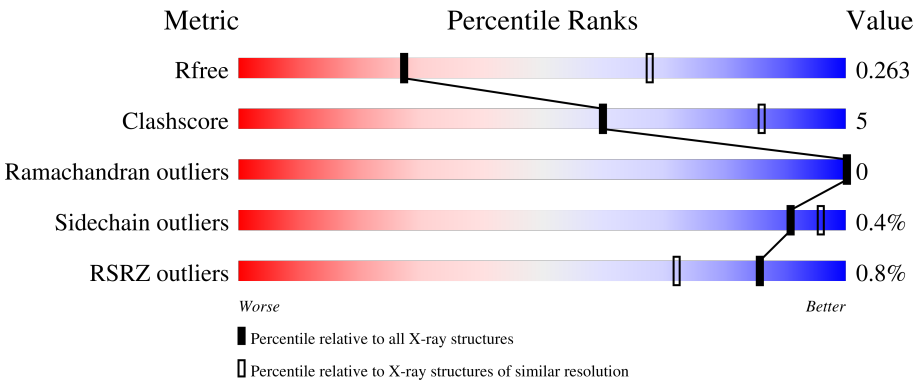
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

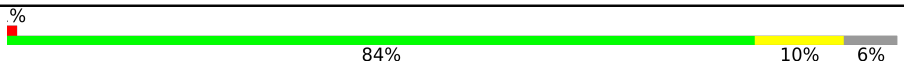
The reported resolution of this entry is 3.10 Å.

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	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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 <=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	411	

2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 2901 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.

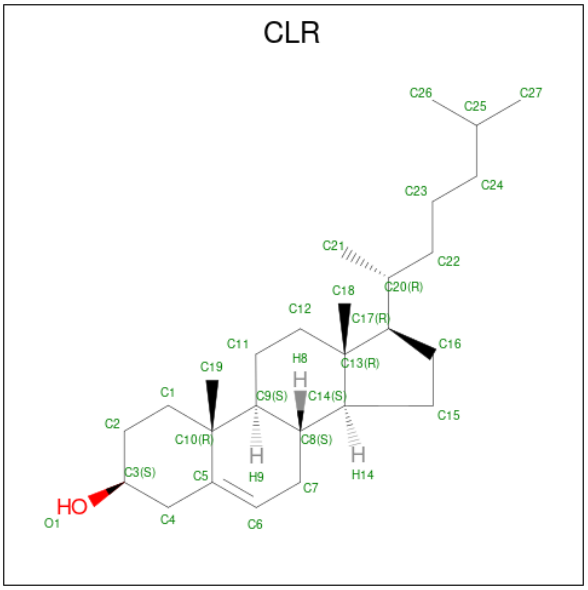
- Molecule 1 is a protein called 5HT2B receptor, BRIL chimera.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	388	2796	1853	446	481	16	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

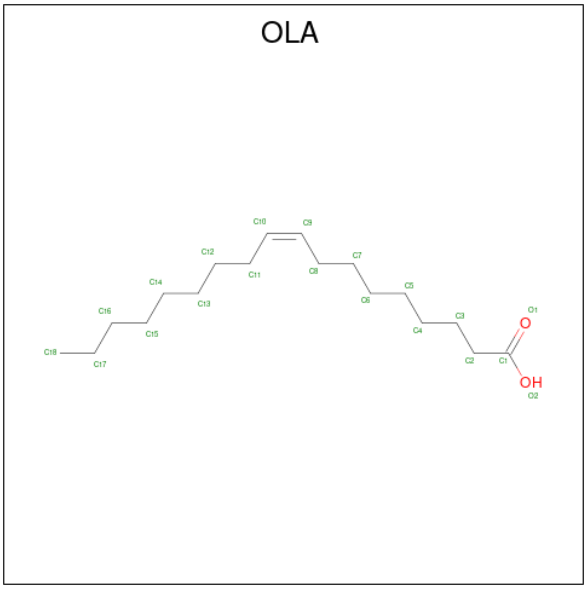
Chain	Residue	Modelled	Actual	Comment	Reference
A	144	TRP	MET	engineered mutation	UNP P41595
A	225	GLY	ALA	engineered mutation	UNP P41595
A	1007	TRP	MET	engineered mutation	UNP P0ABE7
A	1102	ILE	-	linker	UNP P0ABE7
A	1103	GLN	-	linker	UNP P0ABE7
A	1104	LYS	-	linker	UNP P0ABE7
A	1105	TYR	-	linker	UNP P0ABE7
A	1106	LEU	-	linker	UNP P0ABE7

- Molecule 2 is CHOLESTEROL (three-letter code: CLR) (formula: $C_{27}H_{46}O$).



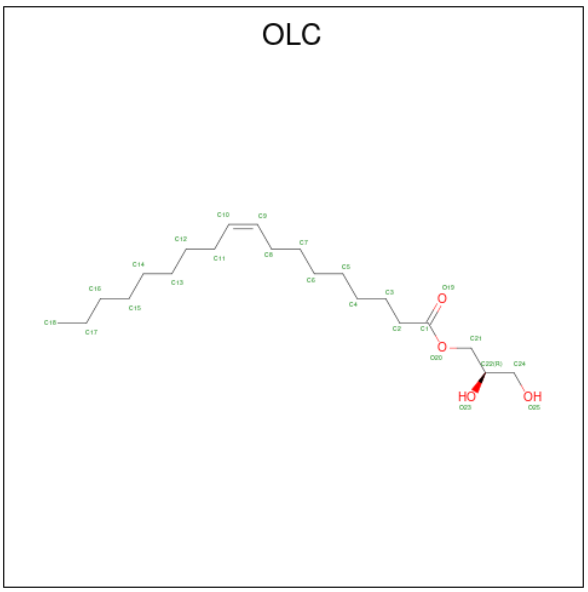
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	28	27	1	0	0

- Molecule 3 is OLEIC ACID (three-letter code: OLA) (formula: $C_{18}H_{34}O_2$).



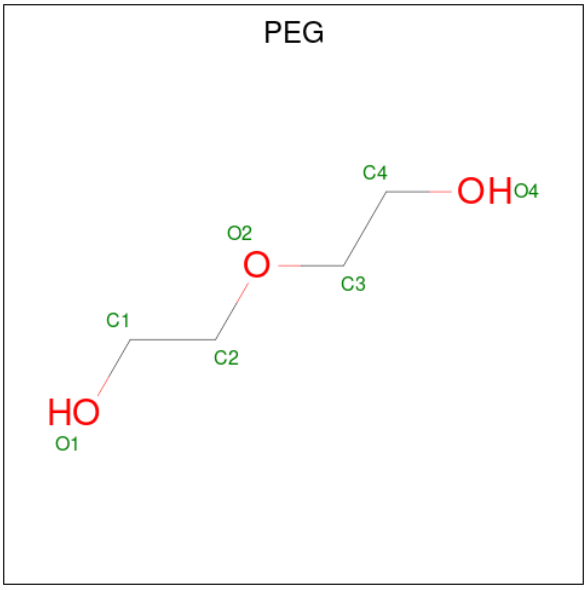
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
3	A	1	17	15	2	0	0

- Molecule 4 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLC) (formula: $C_{21}H_{40}O_4$).



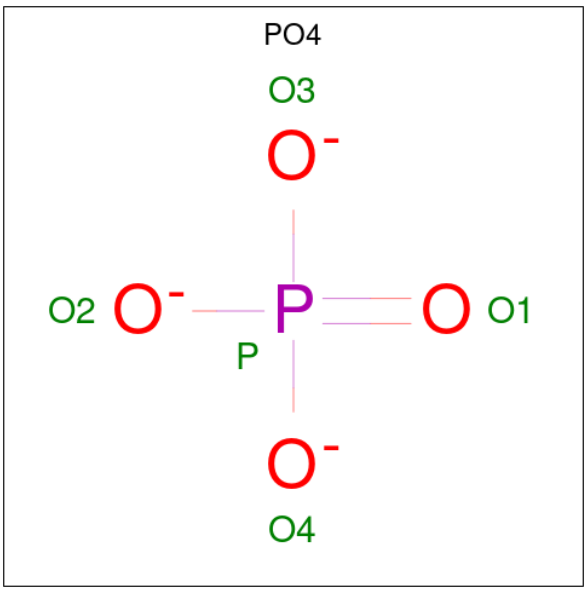
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	19	15	4	0	0

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



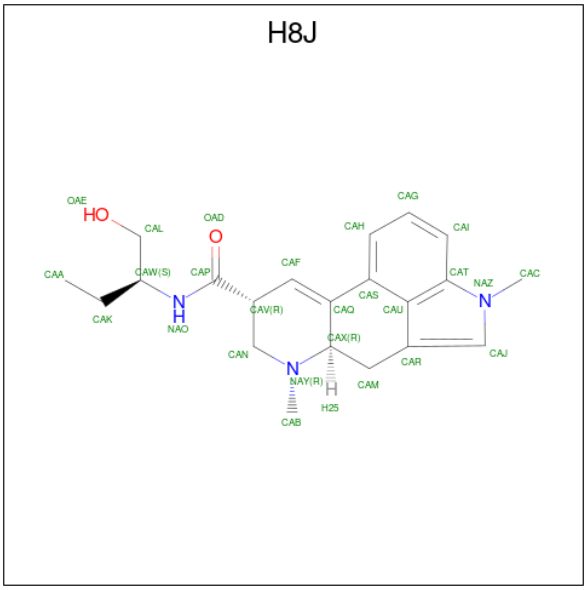
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
5	A	1	7	4	3	0	0

- Molecule 6 is PHOSPHATE ION (three-letter code: PO4) (formula: O_4P).



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

- Molecule 7 is (8alpha)-N-[(2S)-1-hydroxybutan-2-yl]-1,6-dimethyl-9,10-didehydroergoline-8-carboxamide (three-letter code: H8J) (formula: $C_{21}H_{27}N_3O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
7	A	1	26	21	3	2	0	0

- Molecule 8 is water.

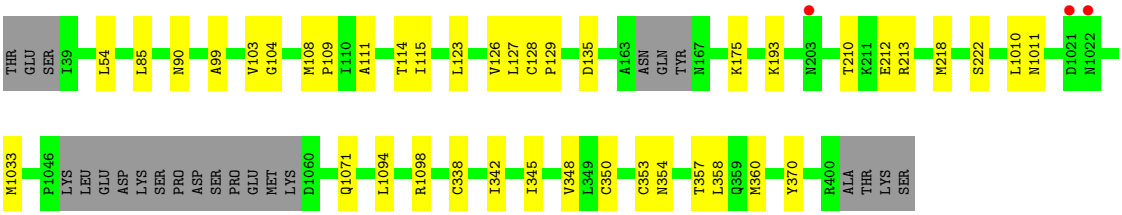
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
8	A	3	3	3	0	0

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: 5HT2B receptor, BRIL chimera

Chain A:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α, β, γ	59.09Å 119.28Å 172.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	27.95 – 3.10 27.95 – 3.10	Depositor EDS
% Data completeness (in resolution range)	92.7 (27.95-3.10) 92.7 (27.95-3.10)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.47 (at 3.11Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.225 , 0.263 0.224 , 0.263	Depositor DCC
R_{free} test set	499 reflections (4.71%)	wwPDB-VP
Wilson B-factor (Å^2)	88.4	Xtriage
Anisotropy	0.303	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 77.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	2901	wwPDB-VP
Average B, all atoms (Å^2)	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.44% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: OLA, CLR, OLC, H8J, PO4, PEG

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	0.27	0/2859	0.40	0/3932

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	2796	0	2662	23	0
2	A	28	0	46	2	0
3	A	17	0	24	0	0
4	A	19	0	25	1	0
5	A	7	0	9	0	0
6	A	5	0	0	0	0
7	A	26	0	0	1	0
8	A	3	0	0	0	0
All	All	2901	0	2766	26	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 5.

All (26) 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:350:CYS:SG	1:A:353:CYS:N	2.76	0.57
1:A:128:CYS:HB3	1:A:129:PRO:HD3	1.87	0.55
1:A:338:CYS:O	1:A:342:ILE:HG13	2.09	0.53
1:A:193:LYS:NZ	1:A:213:ARG:O	2.28	0.51
1:A:1011:ASN:OD1	1:A:1098:ARG:NH1	2.43	0.51
2:A:1201:CLR:H162	2:A:1201:CLR:H221	1.60	0.47
1:A:85:LEU:O	1:A:90:ASN:ND2	2.48	0.47
2:A:1201:CLR:H262	2:A:1201:CLR:H231	1.69	0.46
1:A:222:SER:HB2	1:A:345:ILE:HD11	1.98	0.46
1:A:99:ALA:O	1:A:103:VAL:HG23	2.16	0.46
1:A:126:VAL:O	1:A:129:PRO:HD2	2.17	0.45
1:A:357:THR:HA	1:A:360:MET:HE2	1.98	0.45
1:A:54:LEU:HD23	1:A:54:LEU:HA	1.88	0.44
1:A:123:LEU:HD13	1:A:127:LEU:HD12	2.00	0.43
1:A:210:THR:HG22	1:A:212:GLU:H	1.84	0.43
1:A:1071:GLN:NE2	1:A:1094:LEU:HD23	2.33	0.43
1:A:1010:LEU:CD1	1:A:1033:MET:HE3	2.49	0.43
1:A:354:ASN:O	1:A:358:LEU:HB2	2.20	0.42
1:A:104:GLY:HA2	1:A:108:MET:SD	2.60	0.42
1:A:111:ALA:O	1:A:114:THR:OG1	2.31	0.42
1:A:108:MET:N	1:A:109:PRO:HD2	2.35	0.41
1:A:135:ASP:OD2	1:A:370:TYR:OH	2.30	0.41
4:A:1203:OLC:H8	4:A:1203:OLC:H11	1.88	0.41
1:A:115:ILE:HD13	1:A:115:ILE:HG21	1.88	0.41
1:A:135:ASP:OD1	7:A:1206:H8J:NAY	2.55	0.40
1:A:218:MET:HE3	1:A:348:VAL:HG22	2.03	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	382/411 (93%)	364 (95%)	18 (5%)	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	260/355 (73%)	259 (100%)	1 (0%)	91	96

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

Mol	Chain	Res	Type
1	A	175	LYS

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)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

6 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	PO4	A	1205	-	4,4,4	0.91	0	6,6,6	0.42	0
5	PEG	A	1204	-	6,6,6	1.48	1 (16%)	5,5,5	1.39	0
7	H8J	A	1206	-	26,29,29	3.33	10 (38%)	32,43,43	2.03	10 (31%)
4	OLC	A	1203	-	18,18,24	1.08	1 (5%)	18,19,25	0.91	1 (5%)
2	CLR	A	1201	-	31,31,31	0.68	0	48,48,48	1.18	4 (8%)
3	OLA	A	1202	-	16,16,19	0.52	0	16,16,19	0.96	1 (6%)

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	PEG	A	1204	-	-	1/4/4/4	-
7	H8J	A	1206	-	-	4/12/36/36	0/3/4/4
4	OLC	A	1203	-	-	3/18/18/24	-
2	CLR	A	1201	-	-	9/10/68/68	0/4/4/4
3	OLA	A	1202	-	-	9/14/14/17	-

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	1206	H8J	CAX-CAQ	-9.86	1.40	1.53
7	A	1206	H8J	CAF-CAQ	6.25	1.40	1.33
7	A	1206	H8J	CAU-CAT	-5.25	1.36	1.42
7	A	1206	H8J	CAV-CAF	-4.76	1.41	1.50
7	A	1206	H8J	CAP-NAO	4.65	1.44	1.34
4	A	1203	OLC	O20-C1	4.32	1.46	1.33
7	A	1206	H8J	CAJ-NAZ	-4.17	1.32	1.38
7	A	1206	H8J	CAR-CAU	-4.15	1.34	1.41
7	A	1206	H8J	CAI-CAT	-3.76	1.33	1.41
7	A	1206	H8J	CAS-CAU	-3.58	1.34	1.41
5	A	1204	PEG	O2-C2	-2.88	1.29	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	1206	H8J	CAS-CAQ	-2.78	1.41	1.45

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A	1206	H8J	CAV-CAP-NAO	5.59	121.44	114.60
7	A	1206	H8J	CAI-CAT-NAZ	5.21	136.61	132.14
2	A	1201	CLR	C4-C5-C10	3.46	121.02	116.42
2	A	1201	CLR	C13-C17-C20	-3.46	114.07	119.49
7	A	1206	H8J	CAM-CAX-CAQ	-2.88	109.97	113.42
7	A	1206	H8J	CAN-NAY-CAX	-2.68	107.91	110.96
7	A	1206	H8J	CAM-CAX-NAY	-2.50	105.52	110.22
7	A	1206	H8J	CAW-NAO-CAP	-2.48	119.25	123.20
2	A	1201	CLR	C4-C5-C6	-2.47	117.04	120.61
4	A	1203	OLC	O20-C1-C2	2.45	119.59	111.91
7	A	1206	H8J	CAS-CAQ-CAF	-2.41	120.22	123.07
7	A	1206	H8J	CAS-CAU-CAT	2.20	125.28	120.00
7	A	1206	H8J	CAM-CAR-CAJ	2.19	136.29	131.71
7	A	1206	H8J	OAD-CAP-CAV	-2.16	119.08	121.48
2	A	1201	CLR	C8-C7-C6	-2.16	109.64	112.73
3	A	1202	OLA	O2-C1-C2	2.06	120.64	114.03

There are no chirality outliers.

All (26) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	A	1206	H8J	CAA-CAK-CAW-CAL
7	A	1206	H8J	CAA-CAK-CAW-NAO
7	A	1206	H8J	OAE-CAL-CAW-CAK
2	A	1201	CLR	C13-C17-C20-C22
2	A	1201	CLR	C17-C20-C22-C23
2	A	1201	CLR	C13-C17-C20-C21
3	A	1202	OLA	C1-C2-C3-C4
3	A	1202	OLA	C11-C10-C9-C8
2	A	1201	CLR	C22-C23-C24-C25
2	A	1201	CLR	C21-C20-C22-C23
5	A	1204	PEG	C1-C2-O2-C3
4	A	1203	OLC	C1-C2-C3-C4
2	A	1201	CLR	C16-C17-C20-C21
2	A	1201	CLR	C16-C17-C20-C22
3	A	1202	OLA	C11-C12-C13-C14
4	A	1203	OLC	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
3	A	1202	OLA	C4-C5-C6-C7
3	A	1202	OLA	C12-C13-C14-C15
2	A	1201	CLR	C23-C24-C25-C26
3	A	1202	OLA	C2-C3-C4-C5
3	A	1202	OLA	C3-C4-C5-C6
2	A	1201	CLR	C23-C24-C25-C27
3	A	1202	OLA	O1-C1-C2-C3
3	A	1202	OLA	O2-C1-C2-C3
7	A	1206	H8J	OAE-CAL-CAW-NAO
4	A	1203	OLC	C7-C8-C9-C10

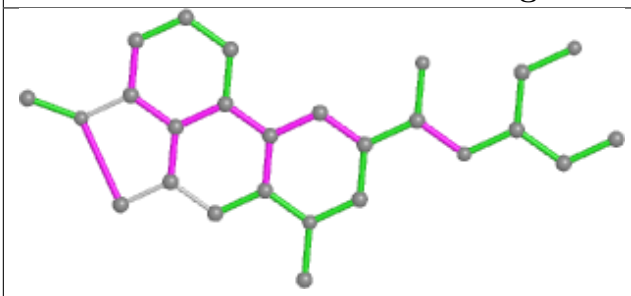
There are no ring outliers.

3 monomers are involved in 4 short contacts:

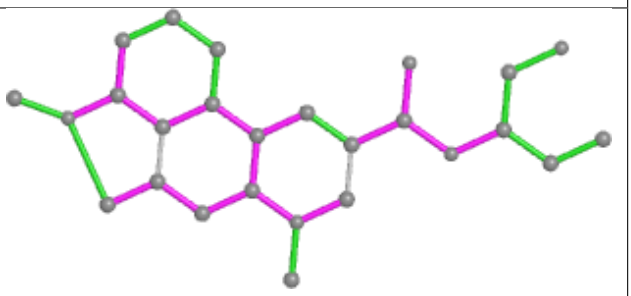
Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	A	1206	H8J	1	0
4	A	1203	OLC	1	0
2	A	1201	CLR	2	0

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

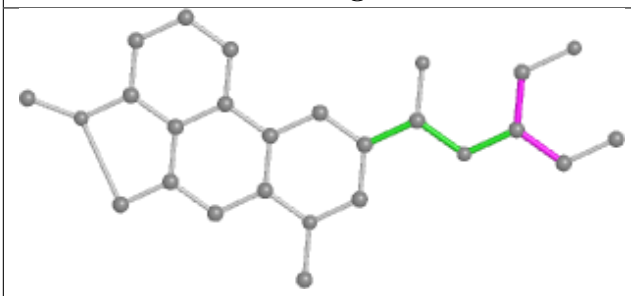
Ligand H8J A 1206



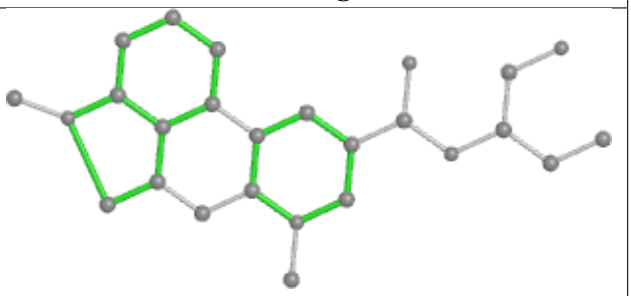
Bond lengths



Bond angles

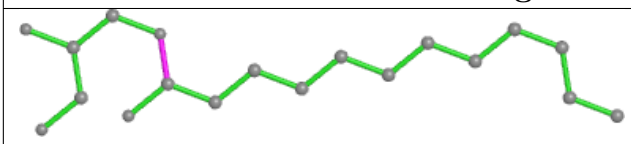


Torsions

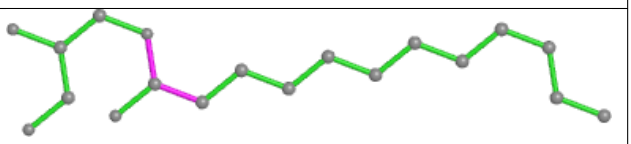


Rings

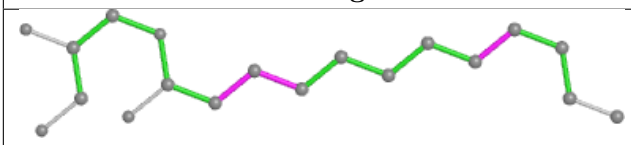
Ligand OLC A 1203



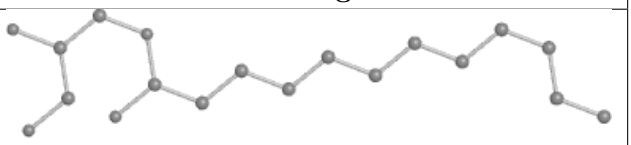
Bond lengths



Bond angles

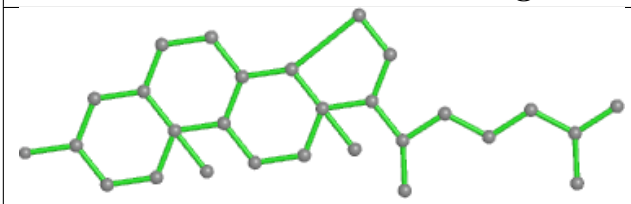


Torsions

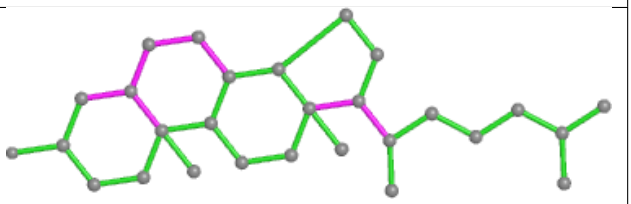


Rings

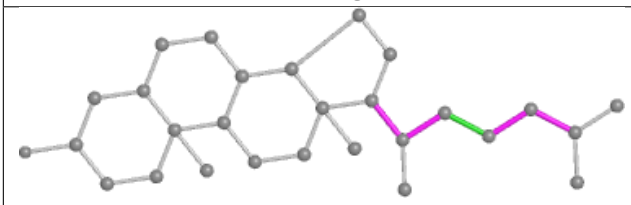
Ligand CLR A 1201



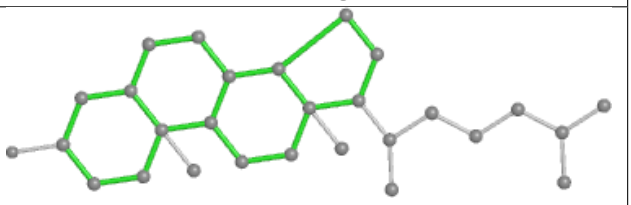
Bond lengths



Bond angles

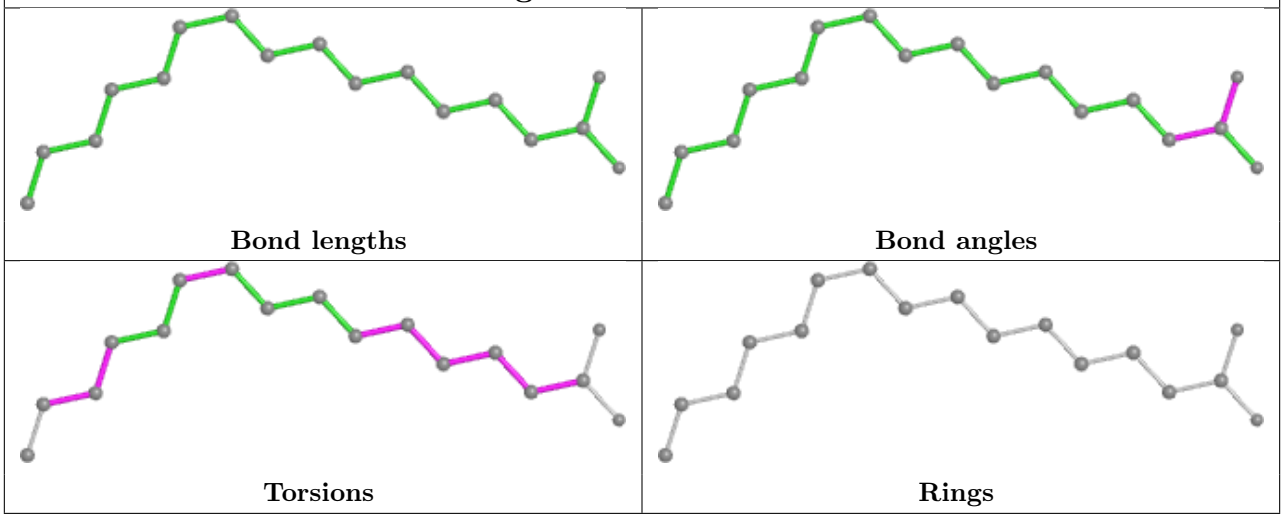


Torsions



Rings

Ligand OLA A 1202



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	388/411 (94%)	-0.45	3 (0%) 86 72	41, 75, 123, 164	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1021	ASP	3.1
1	A	1022	ASN	2.7
1	A	203	ASN	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 monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	PO4	A	1205	5/5	0.81	0.40	128,139,146,148	0
5	PEG	A	1204	7/7	0.84	0.25	52,60,81,84	0
4	OLC	A	1203	19/25	0.86	0.32	46,73,103,104	0
3	OLA	A	1202	17/20	0.87	0.32	44,67,98,103	0

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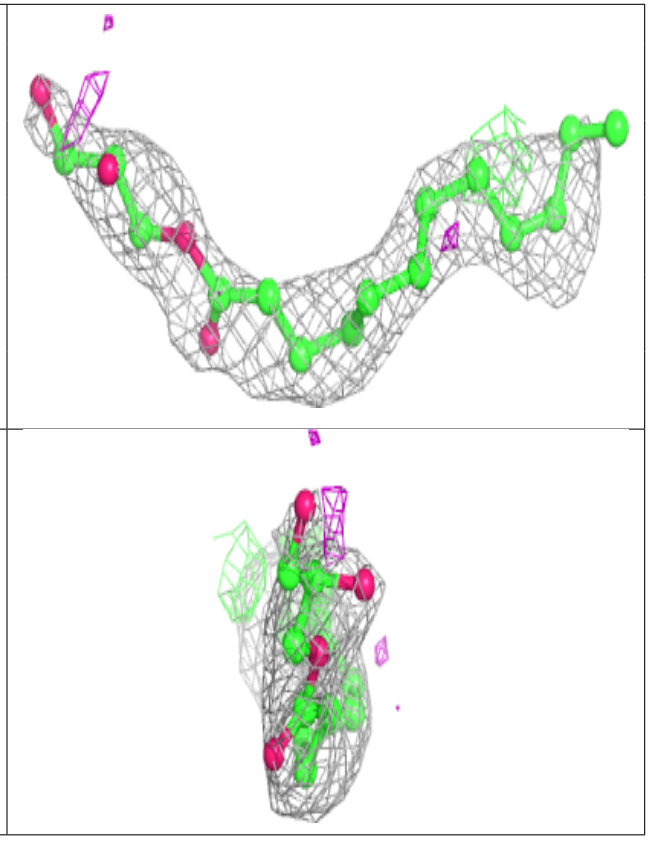
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CLR	A	1201	28/28	0.90	0.26	82,97,107,114	0
7	H8J	A	1206	26/26	0.94	0.21	39,57,68,74	0

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.

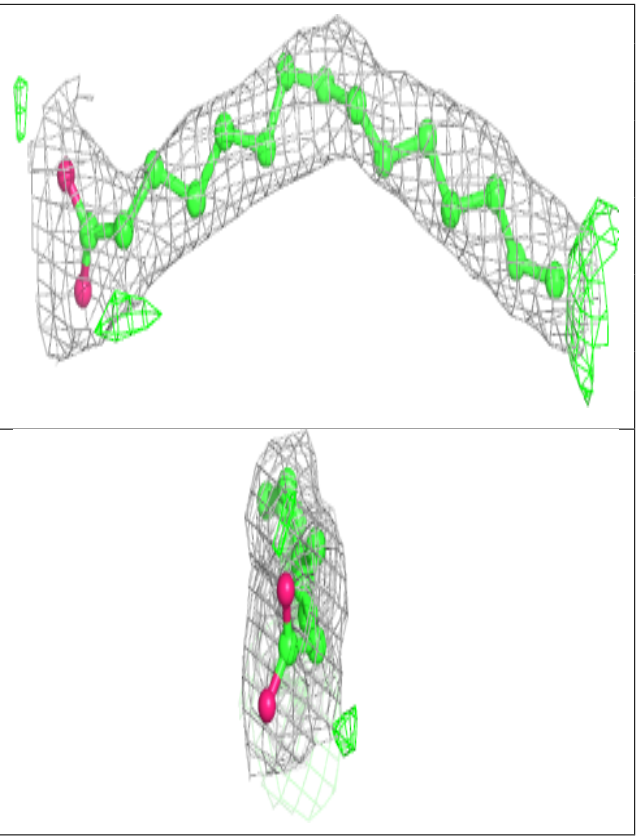
Electron density around OLC A 1203:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative) and green (positive)



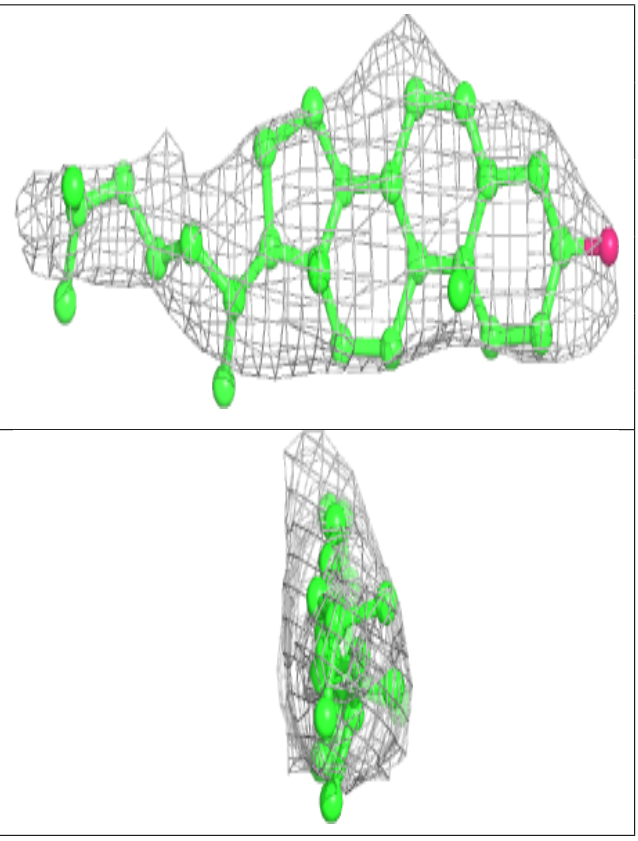
Electron density around OLA A 1202:

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



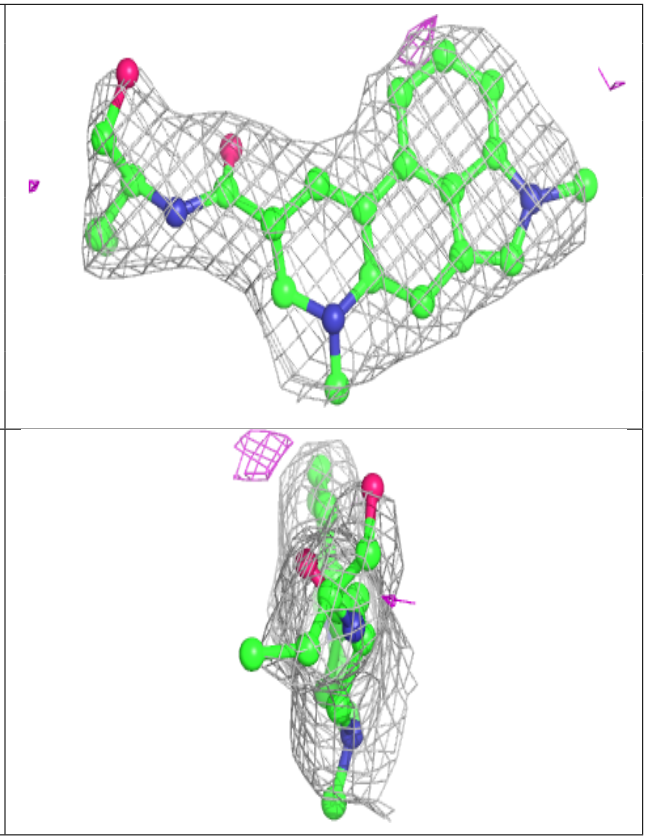
Electron density around CLR A 1201:

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



Electron density around H8J 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)



6.5 Other polymers (i)

There are no such residues in this entry.