

wwPDB X-ray Structure Validation Summary Report (i)

May 24, 2020 – 12:10 am BST

PDB ID : 6OB7

Title: Human equilibrative nucleoside transporter-1, dilazep bound

Authors: Wright, N.J.; Lee, S.-Y.

Deposited on : 2019-03-19

Resolution : 2.30 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 (i) symbol.

The following versions of software and data (see references (1)) 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)

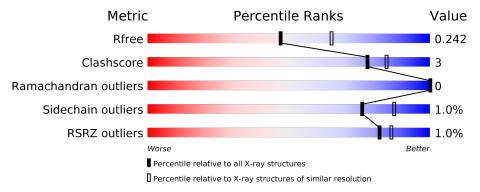
Validation Pipeline (wwPDB-VP) : 2.11

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.30 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 <=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	442	79%	7%	14%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6618 atoms, of which 3332 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 Equilibrative nucleoside transporter 1.

Mol	Chain	Residues			Atom	.S			ZeroOcc	${f AltConf}$	Trace
1	A	381	Total 5953	C 1991	H 3005	N 449	O 485	S 23	0	0	0

There are 54 discrepancies between the modelled and reference sequences:

~1 ·	- · ·	3.6 1 11 1			D 0
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	expression tag	UNP Q99808
A	1	ALA	-	expression tag	UNP Q99808
A	168	PHE	LEU	engineered mutation	UNP Q99808
A	175	ALA	PRO	engineered mutation	UNP Q99808
A	?	-	PRO	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLY	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLU	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLN	deletion	UNP Q99808
A	?	-	GLU	$\operatorname{deletion}$	UNP Q99808
A	?	-	THR	$\operatorname{deletion}$	UNP Q99808
A	?	-	LYS	$\operatorname{deletion}$	UNP Q99808
A	?	-	LEU	$\operatorname{deletion}$	UNP Q99808
A	?	-	ASP	$\operatorname{deletion}$	UNP Q99808
A	?	-	LEU	$\operatorname{deletion}$	UNP Q99808
A	?	-	ILE	$\operatorname{deletion}$	UNP Q99808
A	?	-	SER	$\operatorname{deletion}$	UNP Q99808
A	?	-	LYS	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLY	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLU	$\operatorname{deletion}$	UNP Q99808
A	?	-	GLU	$\operatorname{deletion}$	UNP Q99808
A	?	-	PRO	deletion	UNP Q99808
A	?	-	ARG	$\operatorname{deletion}$	UNP Q99808
A	?	-	ALA	deletion	UNP Q99808
A	?	-	GLY	$\operatorname{deletion}$	UNP Q99808
A	?	-	LYS	deletion	UNP Q99808
A	?	-	GLU	deletion	UNP Q99808
A	?	-	GLU	deletion	UNP Q99808

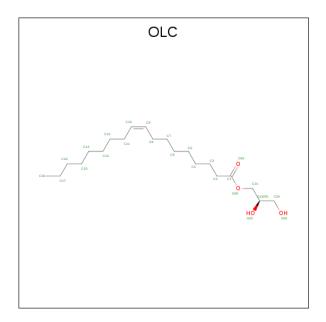


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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	SER	deletion	UNP Q99808
A	?	-	GLY	deletion	UNP Q99808
A	?	-	VAL	deletion	UNP Q99808
A	?	-	SER	deletion	UNP Q99808
A	?	-	VAL	deletion	UNP Q99808
A	?	-	SER	deletion	UNP Q99808
A	?	-	ASN	deletion	UNP Q99808
A	?	-	SER	deletion	UNP Q99808
A	?	-	GLN	deletion	UNP Q99808
A	288	LYS	ASN	engineered mutation	UNP Q99808
A	457	GLY	-	expression tag	UNP Q99808
A	458	THR	-	expression tag	UNP Q99808
A	459	GLU	-	expression tag	UNP Q99808
A	460	LEU	-	expression tag	UNP Q99808
A	461	LEU	-	expression tag	UNP Q99808
A	462	GLN	-	expression tag	UNP Q99808
A	463	VAL	-	expression tag	UNP Q99808
A	464	ASP	-	expression tag	UNP Q99808
A	465	THR	-	expression tag	UNP Q99808
A	466	ASN	-	expression tag	UNP Q99808
A	467	SER	-	expression tag	UNP Q99808
A	468	LEU	-	expression tag	UNP Q99808
A	469	GLU	-	expression tag	UNP Q99808
A	470	VAL	-	expression tag	UNP Q99808
A	471	LEU	-	expression tag	UNP Q99808
A	472	PHE	-	expression tag	UNP Q99808
A	473	GLN	-	expression tag	UNP Q99808

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





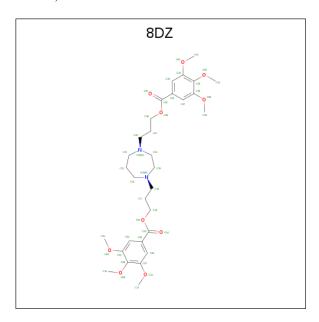
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C H O 31 10 17 4	0	0
2	A	1	Total C H O 65 21 40 4	0	0
2	A	1	Total C H O 65 21 40 4	0	0
2	A	1	Total C H O 34 11 19 4	0	0
2	A	1	Total C H O 25 8 13 4	0	0
2	A	1	Total C H O 34 11 19 4	0	0
2	A	1	Total C H O 28 9 15 4	0	0
2	A	1	Total C H O 22 7 11 4	0	0
2	A	1	Total C H O 19 6 9 4	0	0
2	A	1	Total C H 15 7 8	0	0
2	A	1	Total C H O 34 11 19 4	0	0
2	A	1	Total C H O 28 9 15 4	0	0
2	A	1	Total C H O 15 4 7 4	0	0
2	A	1	Total C H O 16 5 7 4	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C H O 13 5 6 2	0	0
2	A	1	Total C H O 22 7 11 4	0	0
2	A	1	Total C H 27 11 16	0	0
2	A	1	Total C H O 22 7 11 4	0	0

• Molecule 3 is (1,4-diazepane-1,4-diyl)di(propane-3,1-diyl) bis(3,4,5-trimethoxybenzo ate) (three-letter code: 8DZ) (formula: $C_{31}H_{44}N_2O_{10}$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	${f Atoms}$			ZeroOcc	AltConf		
3	A	1	Total	С	Н	N	О	0	0
	11	1	87	31	44	2	10	Ü	O

• Molecule 4 is water.

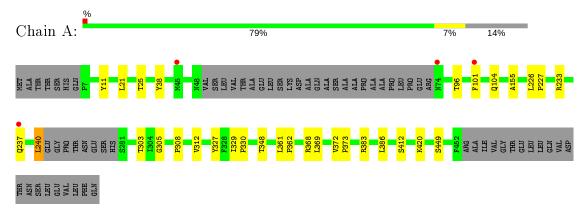
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	63	Total O 63 63	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Equilibrative nucleoside transporter 1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants	72.04\AA 72.04Å 173.37Å	Danagitan
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	62.39 - 2.30	Depositor
Resolution (A)	62.39 - 2.30	EDS
% Data completeness	91.8 (62.39-2.30)	Depositor
(in resolution range)	$91.8 \ (62.39 - 2.30)$	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.69 (at 2.29Å)	Xtriage
Refinement program	PHENIX (1.13_2998: ???)	Depositor
D D	0.203 , 0.243	Depositor
R, R_{free}	0.205 , 0.242	DCC
R_{free} test set	1098 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	21.1	Xtriage
Anisotropy	0.055	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40 , 53.8	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.029 for -h,-k,l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	6618	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.38% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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: OLC, 8DZ

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).

1	Mol	Chain	Bond	lengths	Bond angles		
1010			RMSZ	# Z >5	RMSZ	# Z > 5	
1		Α	0.31	0/3029	0.43	0/4120	

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	2948	3005	3005	19	0
2	A	232	283	283	1	0
3	A	43	44	0	0	0
4	A	63	0	0	1	0
All	All	3286	3332	3288	19	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 3.

The worst 5 of 19 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} ({\rm \AA}) \end{array}$	$egin{array}{c} { m Clash} \\ { m overlap} \ ({ m \AA}) \end{array}$
1:A:420:LYS:NZ	4:A:701:HOH:O	2.21	0.73
1:A:21:LEU:O	1:A:25:THR:HG23	1.99	0.60
1:A:96:THR:HG23	1:A:155:ALA:HB1	1.86	0.55
1:A:303:THR:OG1	1:A:368:ARG:NH2	2.36	0.55
1:A:372:VAL:HB	1:A:373:PRO:HD3	1.90	0.53

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	375/442 (85%)	370 (99%)	5 (1%)	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	309/371 (83%)	306 (99%)	3 (1%)	76 87	

All (3) residues with a non-rotameric sidechain are listed below:

	Mol	Chain	Res	Type
	1	A	38	TYR
ſ	1	A	240	LEU



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Mol	Chain	Res	Type
1	A	369	LEU

Some 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 carbohydrates in this entry.

5.6 Ligand geometry (i)

19 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	Т	Chain	Dog	Link	В	ond leng	gths	Bond angles		
MIOI	Type	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	OLC	A	611	-	14,14,24	1.03	2 (14%)	15,15,25	0.98	1 (6%)
2	OLC	A	607	-	12,12,24	1.10	1 (8%)	13,13,25	1.12	1 (7%)
2	OLC	A	604	-	14,14,24	1.02	1 (7%)	15,15,25	0.86	1 (6%)
2	OLC	A	614	-	8,8,24	1.08	1 (12%)	9,9,25	0.88	0
2	OLC	A	601	-	13,13,24	1.05	1 (7%)	14,14,25	1.09	1 (7%)
2	OLC	A	608	-	10,10,24	1.20	2 (20%)	11,11,25	1.20	1 (9%)
2	OLC	A	610	-	6,6,24	0.48	0	4,5,25	0.46	0
2	OLC	A	605	-	11,11,24	1.16	1 (9%)	12,12,25	0.94	1 (8%)



Mol	Т	Chain	Dag	Link	В	ond leng	gths	В	ond ang	gles
MIOI	Type	Chain	m Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	OLC	A	613	_	7,7,24	0.96	0	6,7,25	0.38	0
2	OLC	A	602	-	24,24,24	0.83	2 (8%)	25,25,25	0.83	1 (4%)
2	OLC	A	609	-	9,9,24	1.23	1 (11%)	10,10,25	1.28	1 (10%)
2	OLC	A	617	_	10,10,24	0.38	0	9,9,25	0.64	0
2	OLC	A	606	-	14,14,24	1.01	2 (14%)	15,15,25	0.99	1 (6%)
2	OLC	A	612	-	12,12,24	1.08	1 (8%)	13,13,25	1.03	1 (7%)
2	OLC	A	615	-	3,6,24	0.32	0	2,6,25	0.37	0
3	8DZ	A	619	_	45,45,45	2.71	13 (28%)	55,59,59	1.67	12 (21%)
2	OLC	A	618	_	10,10,24	1.19	1 (10%)	11,11,25	0.96	1 (9%)
2	OLC	A	616	-	10,10,24	1.18	2 (20%)	11,11,25	1.12	1 (9%)
2	OLC	A	603	-	24,24,24	0.81	2 (8%)	25,25,25	0.92	1 (4%)

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
2	OLC	A	611	-	-	10/14/14/24	-
2	OLC	A	607	-	-	7/12/12/24	-
2	OLC	A	604	-	-	3/14/14/24	-
2	OLC	A	614	-	-	4/7/7/24	-
2	OLC	A	601	-	-	5/13/13/24	-
2	OLC	A	608	-	-	4/10/10/24	-
2	OLC	A	610	-	-	2/4/4/24	-
2	OLC	A	605	-	-	2/11/11/24	-
2	OLC	A	613	-	-	4/6/6/24	-
2	OLC	A	602	-	-	15/24/24/24	-
2	OLC	A	609	-	-	5/9/9/24	-
2	OLC	A	617	-	-	3/8/8/24	-
2	OLC	A	606	-	-	3/14/14/24	-
2	OLC	A	612	-	-	4/12/12/24	-
2	OLC	A	615	-	-	2/2/4/24	-
3	8DZ	A	619	_	-	9/34/45/45	0/3/3/3
2	OLC	A	618	-	-	2/10/10/24	-
2	OLC	A	616	_	-	6/10/10/24	-



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\mathbf{Mol}	Type	Chain	${f Res}$	Link	Chirals	${f Torsions}$	Rings
2	OLC	A	603	_	-	17/24/24/24	-

The worst 5 of 33 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
3	A	619	8DZ	C26-N23	-9.81	1.24	1.47
3	A	619	8DZ	C18-N19	-9.23	1.26	1.47
3	A	619	8DZ	C20-N19	-4.10	1.34	1.46
3	A	619	8DZ	C25-N19	-4.02	1.35	1.46
3	A	619	8DZ	C24-N23	-3.93	1.35	1.46

The worst 5 of 25 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
3	A	619	8DZ	C28-O29-C30	4.62	126.16	116.43
3	A	619	8DZ	O15-C13-C05	4.47	119.93	112.14
3	A	619	8DZ	O38-C36-C35	3.87	121.96	115.16
2	A	609	OLC	O20-C1-C2	3.39	120.28	111.38
3	A	619	8DZ	O02-C03-C08	3.12	120.64	115.16

There are no chirality outliers.

5 of 107 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	608	OLC	O20-C21-C22-C24
2	A	608	OLC	O20-C21-C22-O23
2	A	610	OLC	C6-C7-C8-C9
2	A	613	OLC	C21-C22-C24-O25
2	A	613	OLC	O23-C22-C24-O25

There are no ring outliers.

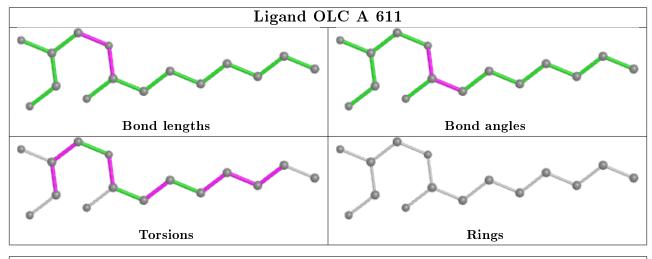
1 monomer is involved in 1 short contact:

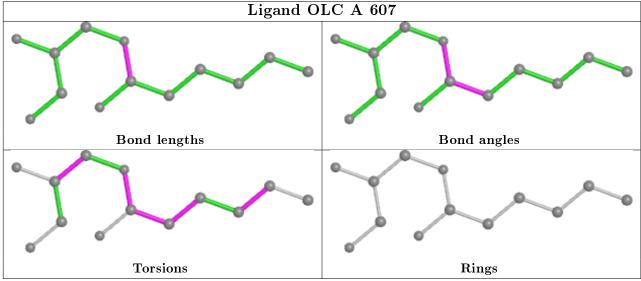
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	602	OLC	1	0

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 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.

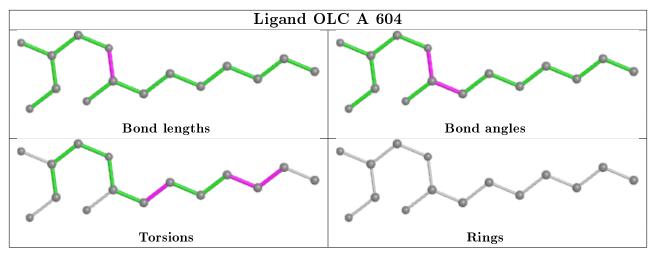


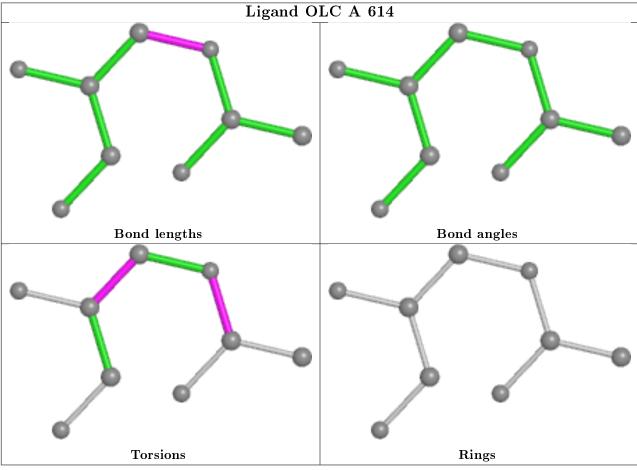
Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD 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.



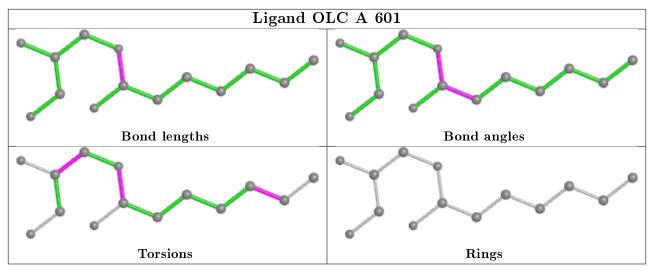


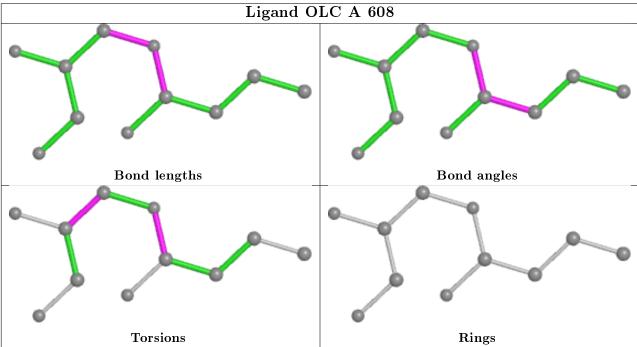


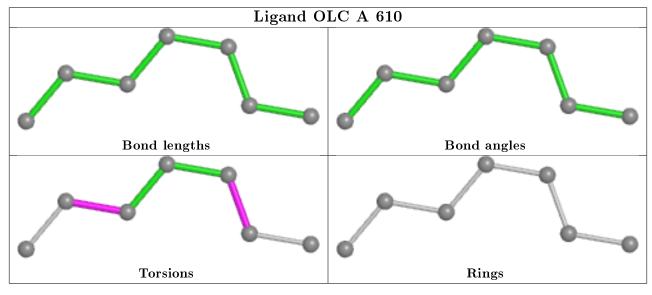




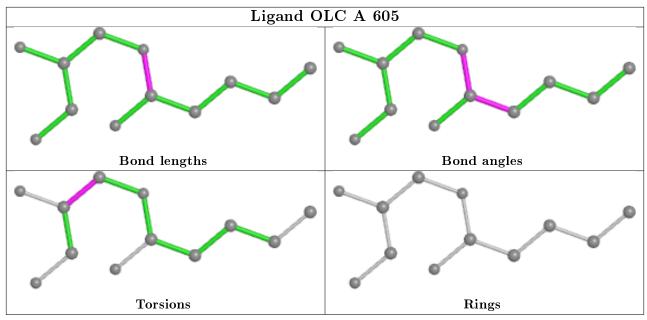


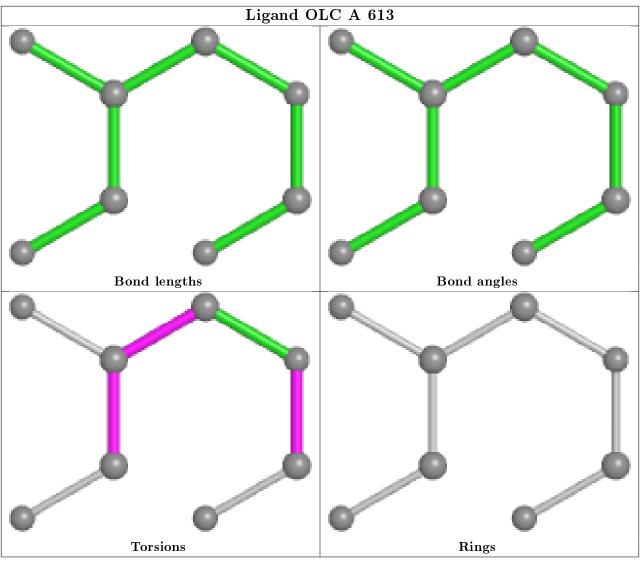




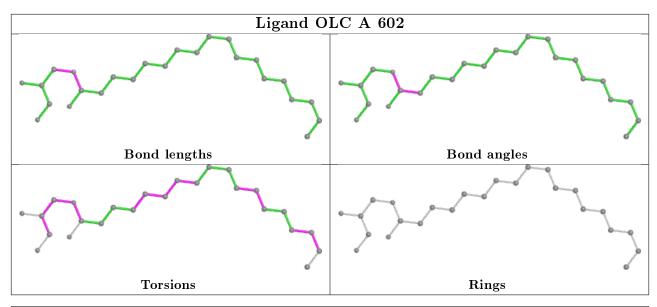


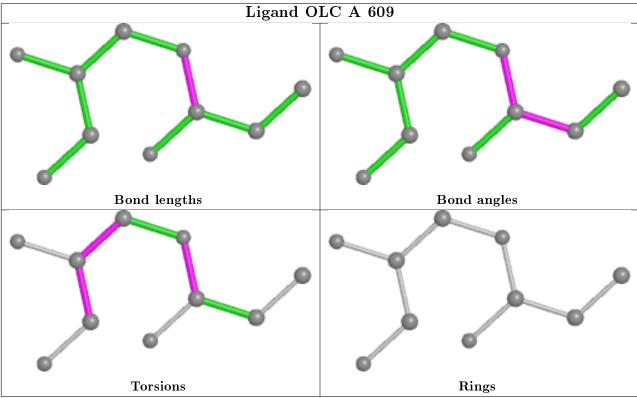




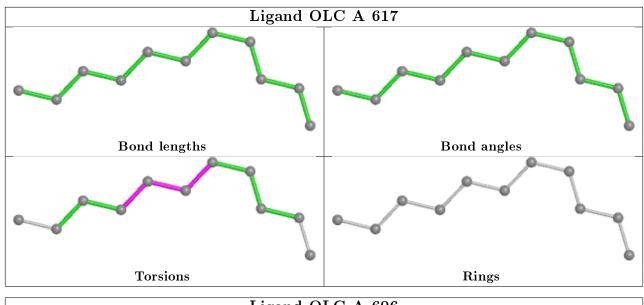


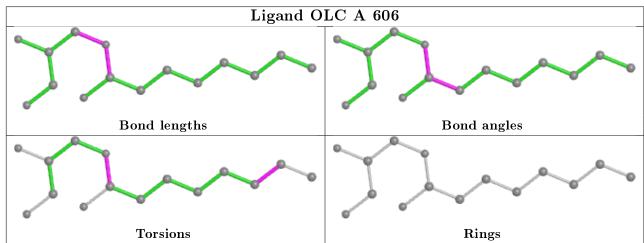


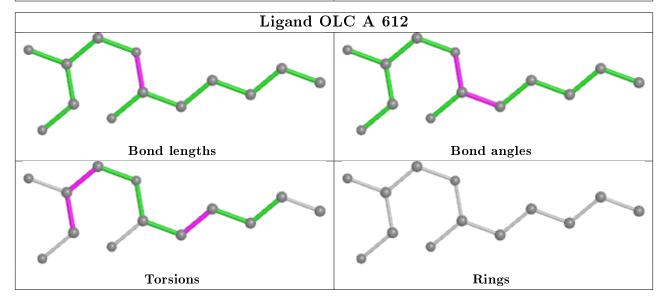




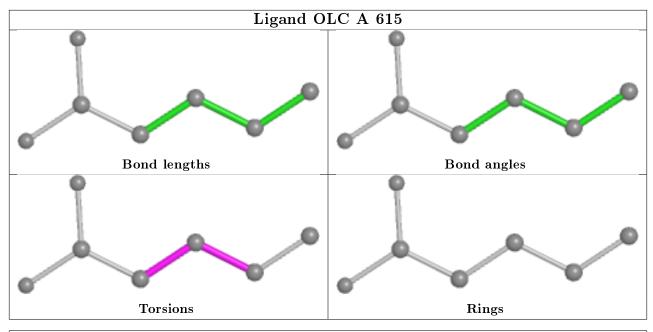


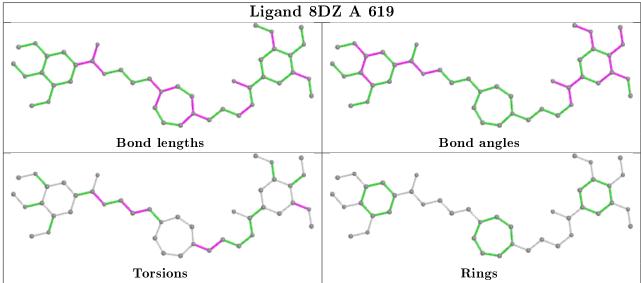




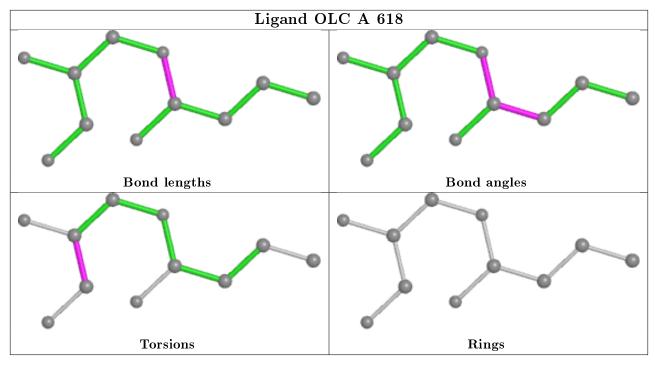


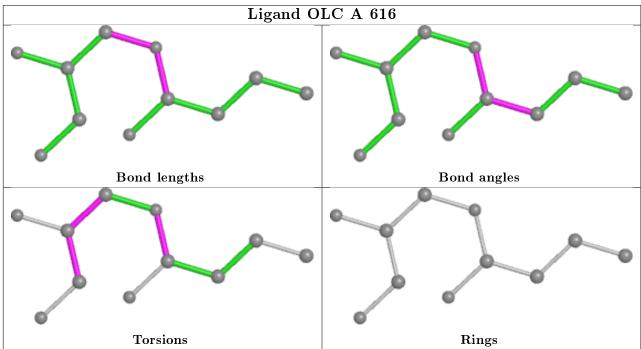




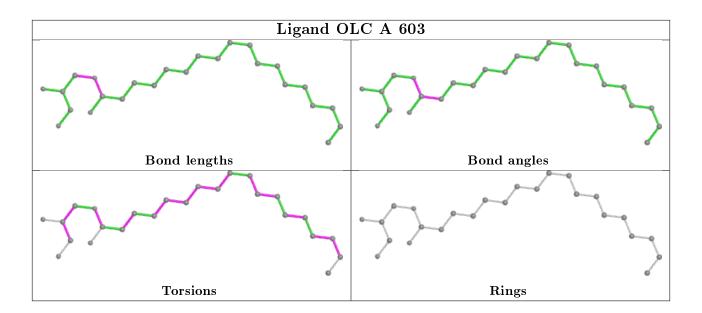












5.7 Other polymers (i)

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, 95^{th} 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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q < 0.9	
1	A	381/442 (86%)	-0.22	4 (1%)	82	86	13, 22, 39, 52	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	74	ASN	4.1
1	A	45	MET	2.6
1	A	237	GLN	2.0
1	A	101	PHE	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 (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, 95^{th} 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.

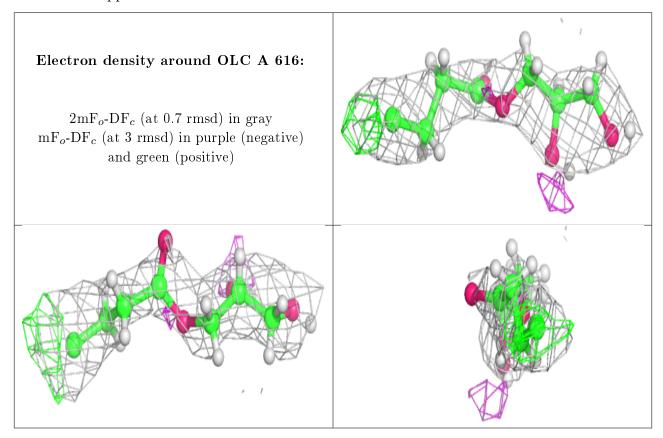
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(ext{\AA}^2)$	Q<0.9
2	OLC	A	616	11/25	0.67	0.31	26,42,49,56	0
2	OLC	A	602	25/25	0.73	0.28	23,41,50,55	0
2	OLC	A	605	12/25	0.73	0.18	28,45,53,59	0



Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	OLC	A	601	14/25	0.75	0.19	23,30,52,54	0
2	OLC	A	603	25/25	0.76	0.19	32,40,49,51	0
2	OLC	A	606	15/25	0.77	0.14	22,36,55,57	0
2	OLC	A	611	15/25	0.78	0.28	26,36,52,57	0
2	OLC	A	617	11/25	0.78	0.18	27,36,41,41	0
2	OLC	A	618	11/25	0.78	0.24	39,46,51,53	0
2	OLC	A	610	7/25	0.79	0.18	24,34,41,41	0
2	OLC	A	612	13/25	0.79	0.28	31,40,56,58	0
2	OLC	A	614	9/25	0.82	0.29	41,48,66,66	0
2	OLC	A	607	13/25	0.85	0.22	33,41,48,48	0
2	OLC	A	613	8/25	0.85	0.19	40,45,52,52	0
2	OLC	A	604	15/25	0.86	0.20	29,33,44,48	0
2	OLC	A	615	7/25	0.88	0.16	29,34,36,38	0
2	OLC	A	609	10/25	0.88	0.19	34,44,50,50	0
2	OLC	A	608	11/25	0.91	0.17	32,42,46,54	0
3	8DZ	A	619	43/43	0.93	0.11	20,20,20,20	0

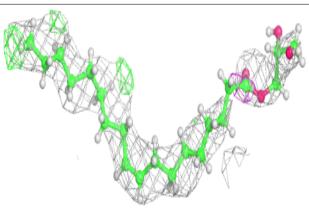
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

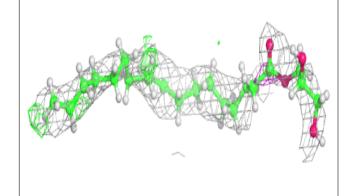


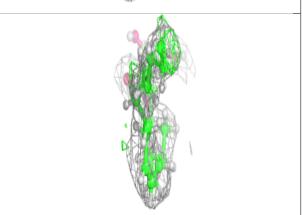


Electron density around OLC A 602:

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

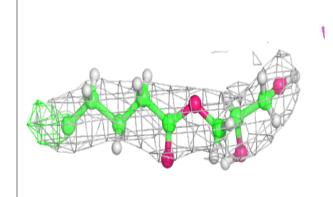


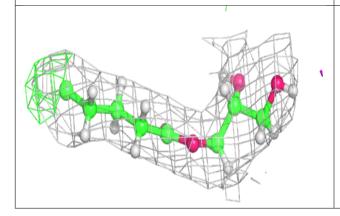


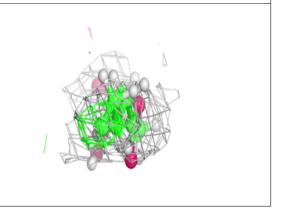


Electron density around OLC A 605:

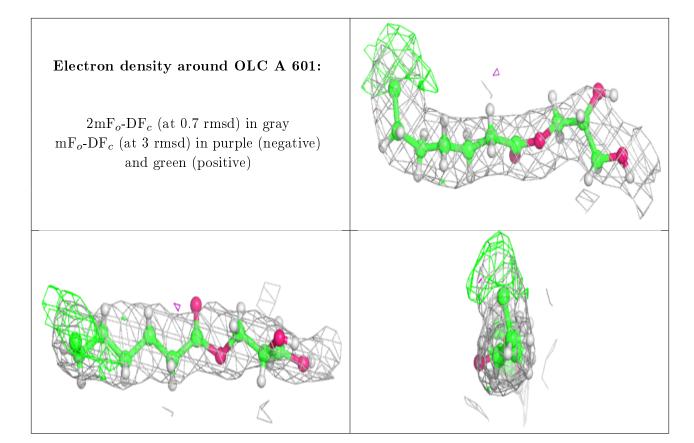
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)









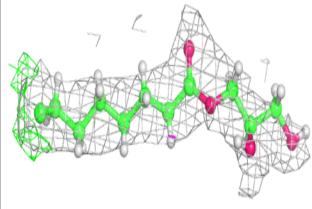


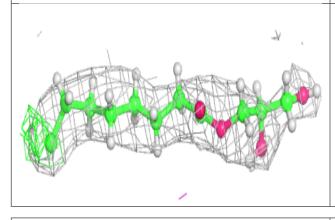
Electron density around OLC A 603: 2mF_o-DF_c (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

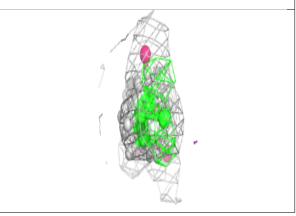


Electron density around OLC A 606:

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

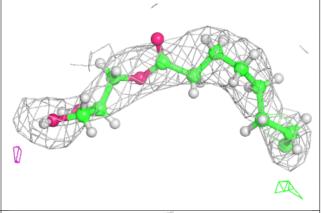


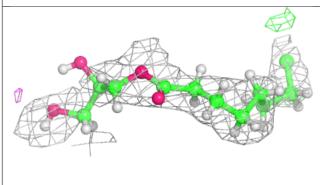


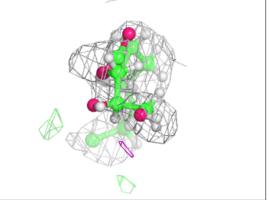


Electron density around OLC A 611:

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



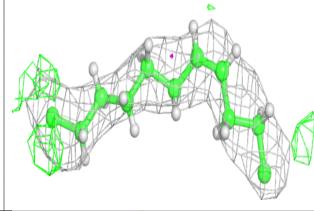


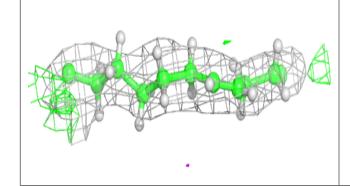


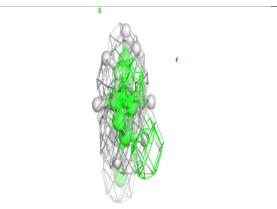


Electron density around OLC A 617:

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

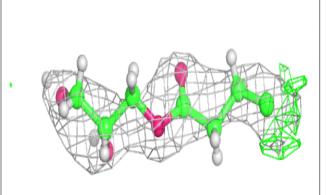


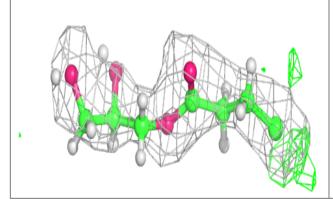




Electron density around OLC A 618:

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



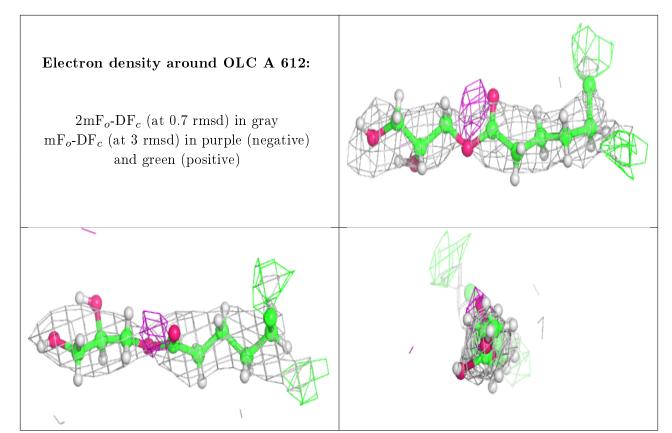


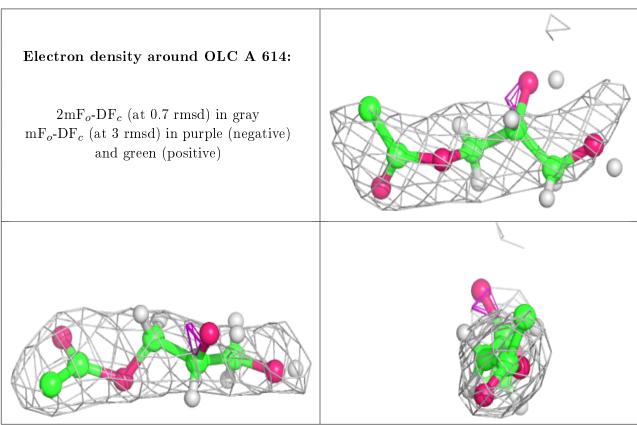




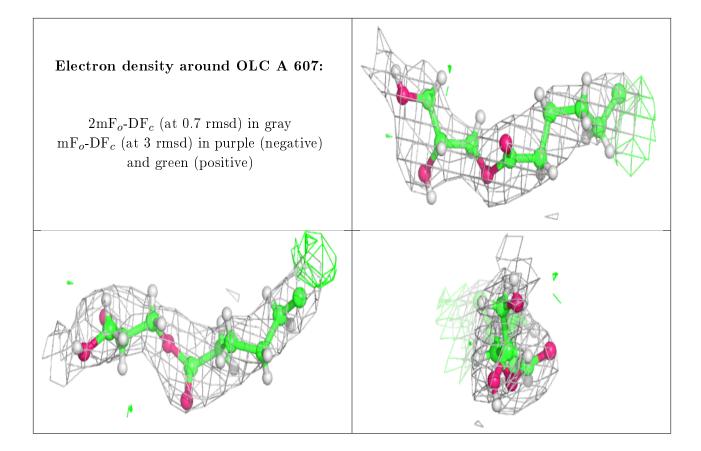
Electron density around OLC A 610: 2mF_o-DF_c (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



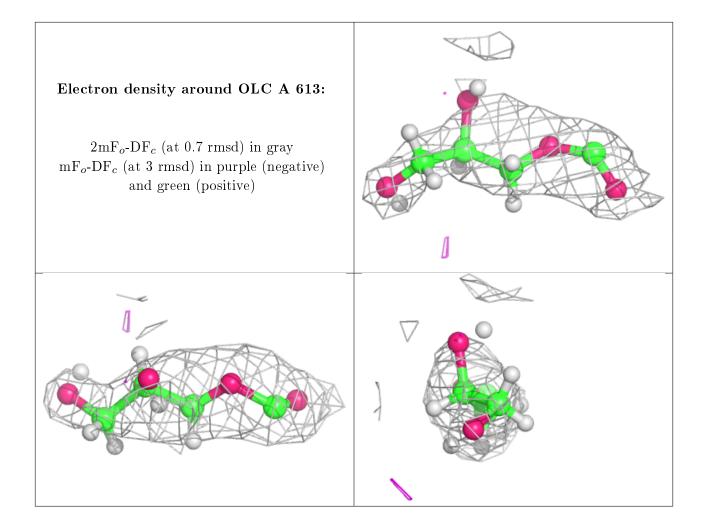








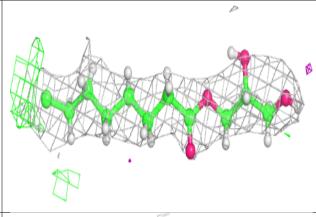


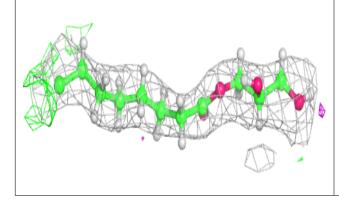


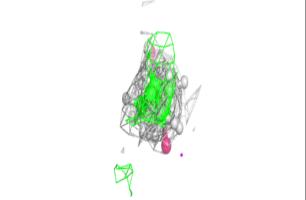


Electron density around OLC A 604:

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

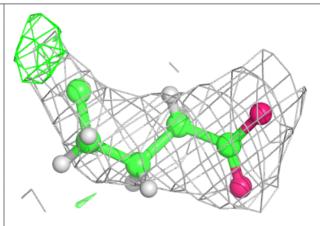


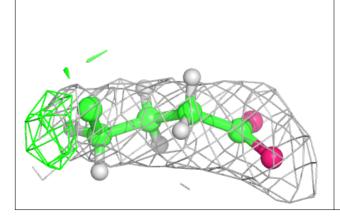


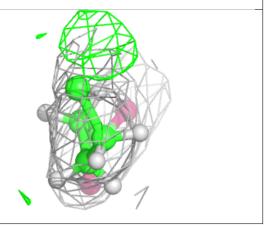


Electron density around OLC A 615:

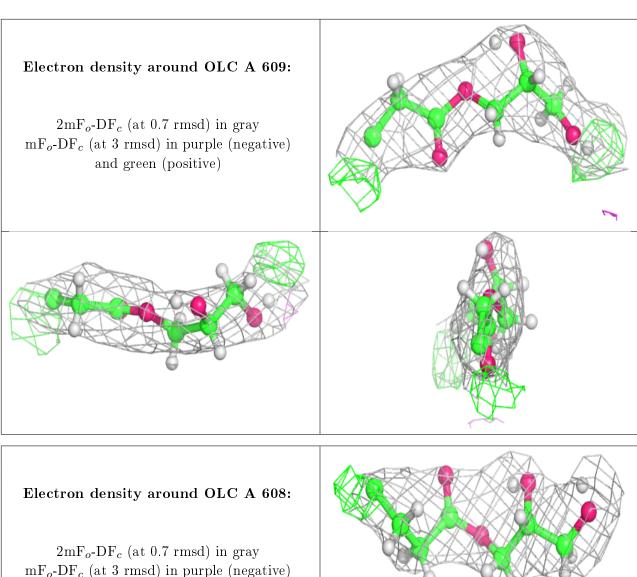
 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)



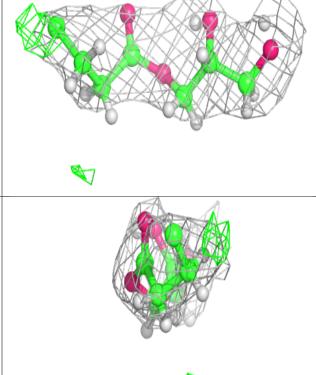


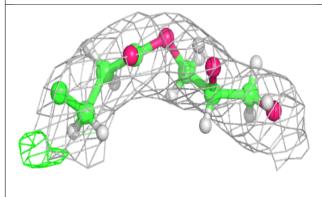




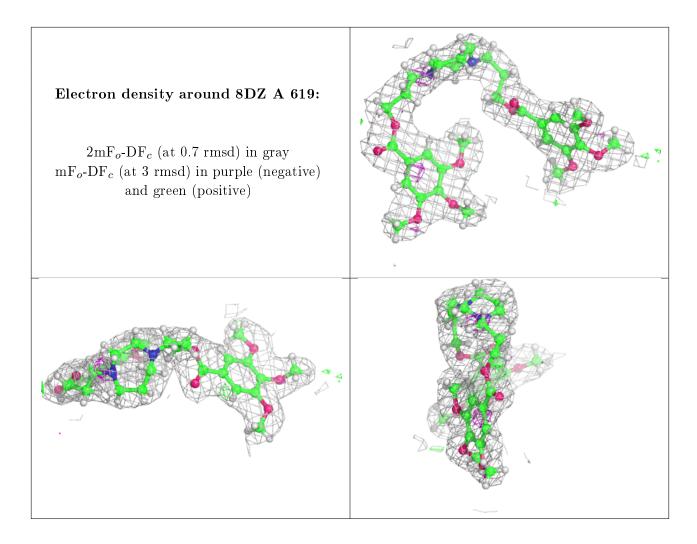


mF_o -DF_c (at 3 rmsd) in purple (negative) and green (positive)









6.5 Other polymers (i)

There are no such residues in this entry.

