

Full wwPDB X-ray Structure Validation Report (i)

Jun 12, 2024 – 11:09 PM EDT

PDB ID : 3VVO

Title: Crystal structure of MATE in the bent conformation

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Deposited on : 2012-07-27

Resolution : 2.50 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.20.1

EDS : 2.36.2

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)

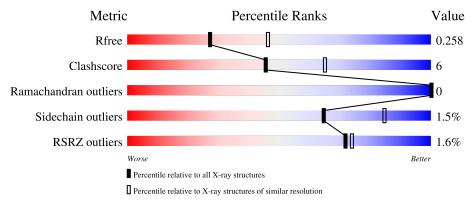
Validation Pipeline (wwPDB-VP) : 2.36.2

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 2.50 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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		
			2%		
1	A	461	85%	12%	•

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
2	OLC	A	507	-	-	-	X



2 Entry composition (i)

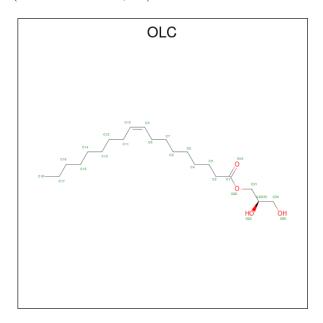
There are 3 unique types of molecules in this entry. The entry contains 3460 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Putative uncharacterized protein.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	448	Total	С	N	О	S	0	0	0
1	A	440	3283	2157	532	573	21	U	U	U

• 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 9 9	0	0
2	A	1	Total C 10 10	0	0
2	A	1	Total C 18 18	0	0
2	A	1	Total C 18 18	0	0
2	A	1	Total C 18 18	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C 17 17	0	0
2	A	1	Total C 14 14	0	0
2	A	1	Total C 9 9	0	0
2	A	1	Total C 14 14	0	0
2	A	1	Total C 9 9	0	0

• Molecule 3 is water.

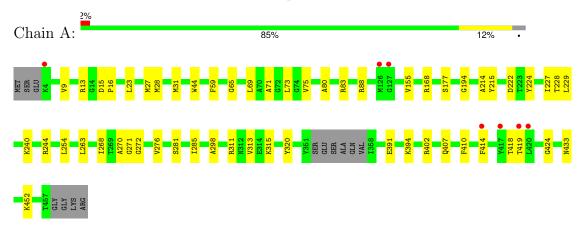
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	41	Total O 41 41	0	0



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: Putative uncharacterized protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	152.89Å 58.84Å 71.49Å	Donogitor
a, b, c, α , β , γ	90.00° 93.18° 90.00°	Depositor
Resolution (Å)	31.66 - 2.50	Depositor
resolution (A)	31.66 - 2.50	EDS
% Data completeness	95.9 (31.66-2.50)	Depositor
(in resolution range)	89.9 (31.66-2.50)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.39 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.8_1069	Depositor
R, R_{free}	0.206 , 0.256	Depositor
it, it free	0.211 , 0.258	DCC
R_{free} test set	2011 reflections (9.49%)	wwPDB-VP
Wilson B-factor (A^2)	34.5	Xtriage
Anisotropy	0.408	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.31, 58.0	EDS
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3460	wwPDB-VP
Average B, all atoms $(Å^2)$	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.48% 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

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).

Mal	Mol Chain	Bond	$\mathbf{lengths}$	Bond angles		
MIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.37	0/3341	0.45	0/4543	

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	3283	0	3378	43	0
2	A	136	0	243	21	0
3	A	41	0	0	2	0
All	All	3460	0	3621	45	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 6.

All (45) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1 Atom-2		$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:31:MET:HB2	2:A:507:OLC:H5A	1.48	0.95



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Continuea from prev		Interatomic	Clash	
Atom-1	Atom-2	${\rm distance}\ (\rm \mathring{A})$	overlap (Å)	
1:A:31:MET:CB	2:A:507:OLC:H5A	2.12	0.80	
1:A:31:MET:CA	2:A:507:OLC:H5A	2.16	0.75	
1:A:31:MET:HB2	2:A:507:OLC:C5	2.18	0.74	
1:A:268:ILE:O	1:A:272:GLY:N	2.19	0.73	
1:A:31:MET:HA	2:A:507:OLC:H5A	1.71	0.70	
1:A:31:MET:O	2:A:507:OLC:H3A	1.91	0.69	
1:A:69:LEU:HD21	2:A:509:OLC:H7A	1.75	0.69	
1:A:228:THR:HA	2:A:506:OLC:H17A	1.77	0.66	
1:A:410:PHE:O	1:A:414:PHE:CD2	2.55	0.59	
2:A:503:OLC:H6A	2:A:504:OLC:H9	1.85	0.58	
1:A:414:PHE:O	1:A:418:THR:CB	2.56	0.54	
1:A:229:LEU:HG	2:A:506:OLC:H15A	1.90	0.53	
1:A:73:LEU:HD23	1:A:155:VAL:HG21	1.91	0.52	
1:A:270:ALA:N	1:A:271:GLY:HA3	2.25	0.52	
1:A:298:ALA:HA	2:A:507:OLC:H15A	1.91	0.51	
1:A:268:ILE:O	1:A:271:GLY:HA3	2.12	0.50	
1:A:281:SER:O	1:A:285:ILE:HG12	2.11	0.50	
1:A:23:LEU:O	1:A:27:MET:HB2	2.12	0.49	
1:A:227:ILE:HG22	2:A:506:OLC:H15	1.94	0.48	
1:A:168:ARG:HH22	1:A:222:ASP:CG	2.17	0.48	
1:A:168:ARG:NH2	1:A:222:ASP:OD2	2.47	0.48	
2:A:503:OLC:H6A	2:A:504:OLC:C9	2.44	0.47	
1:A:391:GLU:OE2	1:A:394:LYS:NZ	2.33	0.47	
1:A:9:VAL:HG21	1:A:224:TYR:CD1	2.50	0.46	
1:A:263:LEU:HD11	1:A:407:GLN:HG2	1.98	0.46	
1:A:71:ALA:HB1	2:A:507:OLC:H4A	1.97	0.45	
1:A:65:GLY:HA2	2:A:509:OLC:H11	1.99	0.45	
1:A:194:GLY:HA3	2:A:505:OLC:H3	1.98	0.45	
1:A:402:ARG:O	1:A:407:GLN:HB2	2.17	0.45	
1:A:44:TRP:HZ3	2:A:504:OLC:H10	1.82	0.44	
1:A:313:VAL:HG21	1:A:452:LYS:HG3	1.99	0.44	
1:A:15:ASP:HA	1:A:16:PRO:HD3	1.86	0.43	
1:A:80:ALA:HA	1:A:83:ARG:NH1	2.34	0.43	
1:A:215:TYR:CG	2:A:501:OLC:H13	2.54	0.43	
1:A:414:PHE:HB3	1:A:424:GLY:HA3	2.00	0.43	
1:A:407:GLN:NE2	1:A:433:ASN:OD1	2.52	0.42	
1:A:59:PHE:HB2	3:A:606:HOH:O	2.19	0.41	
1:A:16:PRO:HG3	1:A:315:LYS:HG3	2.02	0.41	
1:A:240:LYS:O	1:A:244:ARG:HB2	2.21	0.41	
1:A:254:LEU:HA	2:A:509:OLC:H12	2.03	0.41	
1:A:13:ARG:NH2	1:A:88:ARG:HD3	2.35	0.41	



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Atom-1	Atom-2	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	$egin{array}{c} ext{Clash} \ ext{overlap } (ext{Å}) \end{array}$
1:A:28:MET:HG3	3:A:602:HOH:O	2.20	0.41
1:A:75:VAL:CG2	2:A:507:OLC:H14A	2.51	0.40
1:A:214:ALA:HB1	2:A:510:OLC:H13A	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	444/461 (96%)	441 (99%)	3 (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.

N	Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
	1	A	$326/362 \ (90\%)$	321 (98%)	5 (2%)	65 85

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	177	SER
1	A	276	VAL
1	A	311	ARG



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Mol	Chain	Res	Type
1	A	320	TYR
1	A	419	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	407	GLN
1	A	433	ASN

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)

10 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	Tuno	Chain	Res	Link	Bo	ond leng	$ ag{ths}$	Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	OLC	A	503	-	17,17,24	0.70	1 (5%)	16,16,25	0.62	0
2	OLC	A	510	-	8,8,24	0.24	0	7,7,25	0.48	0
2	OLC	A	506	-	16,16,24	0.94	1 (6%)	15,15,25	0.72	0
2	OLC	A	507	-	12,12,24	0.15	0	10,10,25	0.45	0



Mol	Type	Chain	Res	Link	Во	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	OLC	A	508	-	8,8,24	0.25	0	7,7,25	0.48	0	
2	OLC	A	502	_	9,9,24	0.99	1 (11%)	8,8,25	0.59	0	
2	OLC	A	501	-	8,8,24	0.24	0	7,7,25	0.51	0	
2	OLC	A	504	-	17,17,24	0.70	1 (5%)	16,16,25	0.66	0	
2	OLC	A	505	-	17,17,24	0.73	1 (5%)	16,16,25	0.55	0	
2	OLC	A	509	-	13,13,24	0.81	1 (7%)	12,12,25	0.60	0	

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	OLC	A	503	-	-	12/15/15/24	-
2	OLC	A	510	-	-	4/6/6/24	-
2	OLC	A	506	-	-	5/14/14/24	-
2	OLC	A	507	-	-	4/8/8/24	-
2	OLC	A	508	-	-	1/6/6/24	-
2	OLC	A	502	-	-	5/7/7/24	-
2	OLC	A	501	-	-	3/6/6/24	-
2	OLC	A	504	-	-	10/15/15/24	-
2	OLC	A	505	-	-	7/15/15/24	-
2	OLC	A	509	-	-	4/11/11/24	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
2	A	506	OLC	C9-C10	3.54	1.51	1.31
2	A	505	OLC	C9-C10	2.85	1.47	1.31
2	A	502	OLC	C9-C10	2.83	1.47	1.31
2	A	509	OLC	C9-C10	2.78	1.47	1.31
2	A	503	OLC	C9-C10	2.75	1.47	1.31
2	A	504	OLC	C9-C10	2.75	1.47	1.31

There are no bond angle outliers.

There are no chirality outliers.

All (55) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	A	506	OLC	C11-C10-C9-C8
2	A	507	OLC	C12-C13-C14-C15
2	A	509	OLC	C11-C12-C13-C14
2	A	503	OLC	C5-C6-C7-C8
2	A	504	OLC	C4-C5-C6-C7
2	A	503	OLC	C13-C14-C15-C16
2	A	507	OLC	C13-C14-C15-C16
2	A	501	OLC	C12-C13-C14-C15
2	A	503	OLC	C2-C3-C4-C5
2	A	510	OLC	C14-C15-C16-C17
2	A	507	OLC	C1-C2-C3-C4
2	A	503	OLC	C10-C11-C12-C13
2	A	506	OLC	C6-C7-C8-C9
2	A	509	OLC	C10-C11-C12-C13
2	A	504	OLC	C11-C10-C9-C8
2	A	508	OLC	C11-C12-C13-C14
2	A	502	OLC	C10-C11-C12-C13
2	A	501	OLC	C11-C12-C13-C14
2	A	503	OLC	C12-C13-C14-C15
2	A	504	OLC	C1-C2-C3-C4
2	A	502	OLC	C11-C10-C9-C8
2	A	503	OLC	C11-C10-C9-C8
2	A	505	OLC	C11-C10-C9-C8
2	A	504	OLC	C15-C16-C17-C18
2	A	505	OLC	C5-C6-C7-C8
2	A	502	OLC	C13-C14-C15-C16
2	A	503	OLC	C1-C2-C3-C4
2	A	503	OLC	C15-C16-C17-C18
2	A	509	OLC	C14-C15-C16-C17
2	A	504	OLC	C14-C15-C16-C17
2	A	507	OLC	C11-C12-C13-C14
2	A	510	OLC	C12-C13-C14-C15
2	A	502	OLC	C12-C13-C14-C15
2	A	505	OLC	C12-C13-C14-C15
2	A	510	OLC	C11-C12-C13-C14
2	A	504	OLC	C12-C13-C14-C15
2	A	510	OLC	C15-C16-C17-C18
2	A	504	OLC	C3-C4-C5-C6
2	A	509	OLC	C13-C14-C15-C16
2	A	505	OLC	C11-C12-C13-C14
2	A	502	OLC	C7-C8-C9-C10
2	A	506	OLC	C14-C15-C16-C17
2	A	503	OLC	C14-C15-C16-C17



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Mol	Chain	Res	Type	Atoms
2	A	503	OLC	C3-C4-C5-C6
2	A	506	OLC	C9-C10-C11-C12
2	A	505	OLC	C9-C10-C11-C12
2	A	504	OLC	C7-C8-C9-C10
2	A	505	OLC	C15-C16-C17-C18
2	A	506	OLC	C11-C12-C13-C14
2	A	504	OLC	C11-C12-C13-C14
2	A	501	OLC	C15-C16-C17-C18
2	A	504	OLC	C9-C10-C11-C12
2	A	503	OLC	C7-C8-C9-C10
2	A	505	OLC	C13-C14-C15-C16
2	A	503	OLC	C9-C10-C11-C12

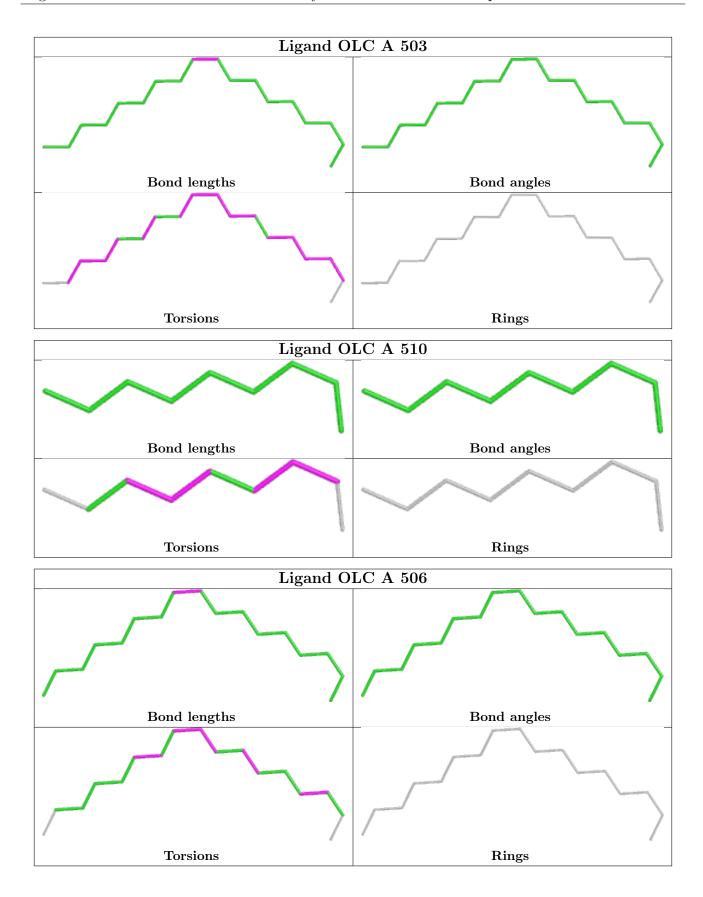
There are no ring outliers.

8 monomers are involved in 21 short contacts:

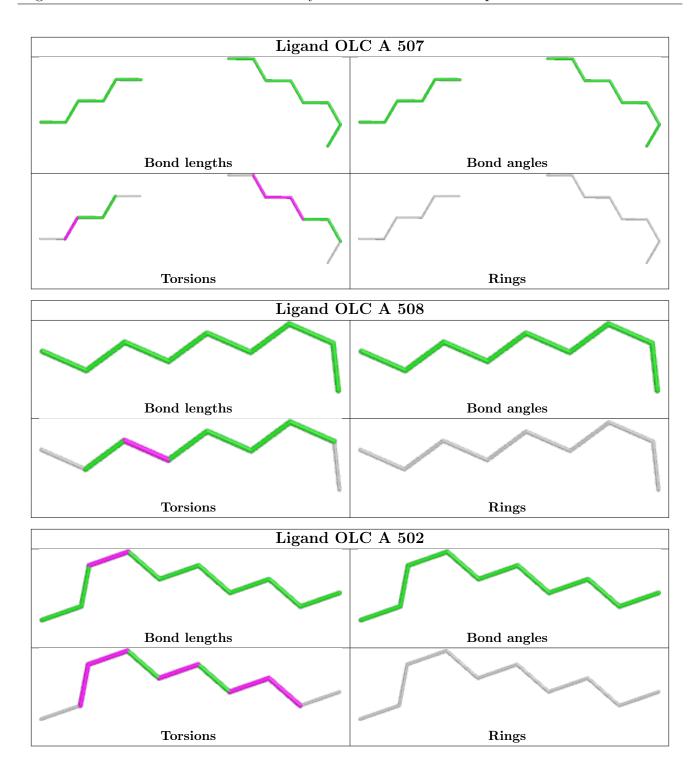
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	503	OLC	2	0
2	A	510	OLC	1	0
2	A	506	OLC	3	0
2	A	507	OLC	9	0
2	A	501	OLC	1	0
2	A	504	OLC	3	0
2	A	505	OLC	1	0
2	A	509	OLC	3	0

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.

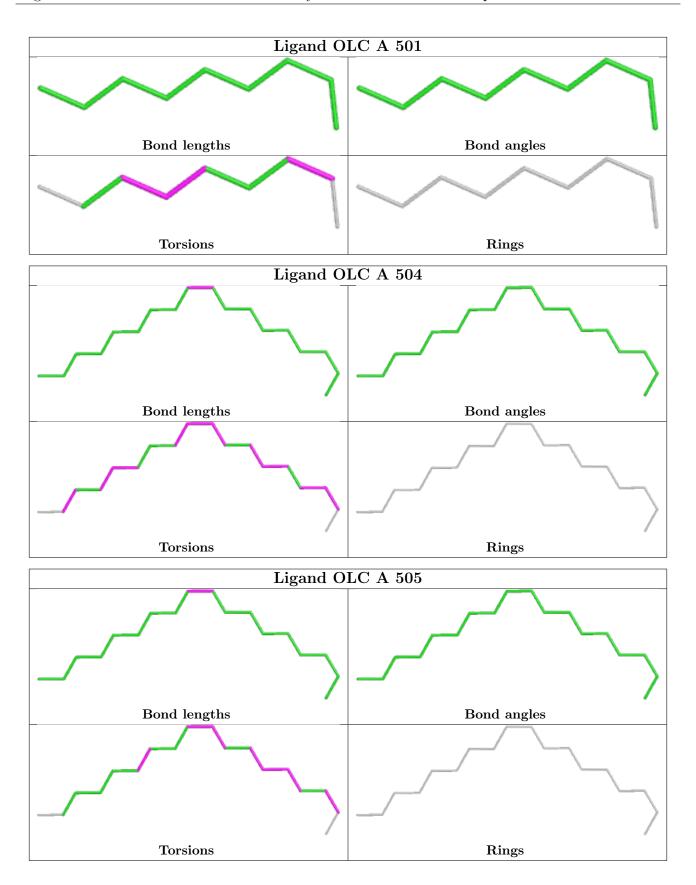




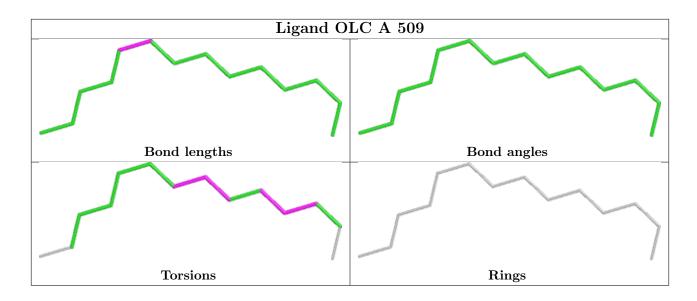












5.7 Other polymers (i)

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	448/461 (97%)	-0.29	7 (1%) 72 74	25, 43, 72, 97	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	417	TYR	4.6
1	A	127	GLY	3.9
1	A	419	THR	3.9
1	A	4	LYS	3.0
1	A	126	MET	2.2
1	A	420	LEU	2.1
1	A	414	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.

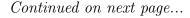
6.3 Carbohydrates (i)

There are no 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, 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.

\mathbf{Mol}	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	OLC	A	507	14/25	0.67	0.44	61,66,77,79	0

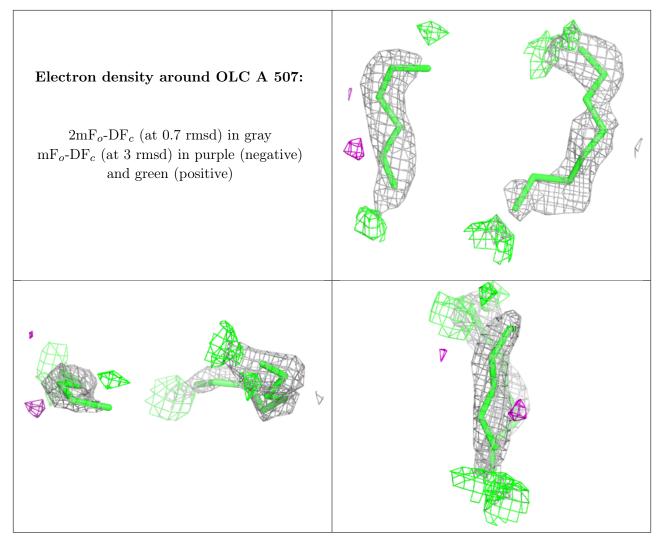




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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	OLC	A	501	9/25	0.69	0.34	62,63,65,66	0
2	OLC	A	504	18/25	0.81	0.26	53,58,66,68	0
2	OLC	A	506	17/25	0.84	0.20	46,50,52,53	0
2	OLC	A	509	14/25	0.84	0.24	55,62,74,74	0
2	OLC	A	505	18/25	0.85	0.23	43,49,66,66	0
2	OLC	A	503	18/25	0.85	0.24	54,60,72,74	0
2	OLC	A	508	9/25	0.86	0.16	49,53,67,67	0
2	OLC	A	510	9/25	0.87	0.23	47,52,55,57	0
2	OLC	A	502	10/25	0.91	0.23	41,47,54,55	0

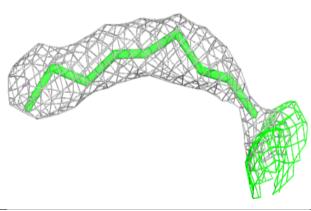
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

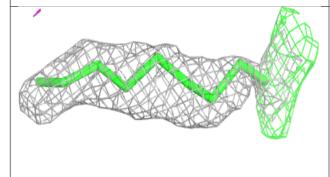


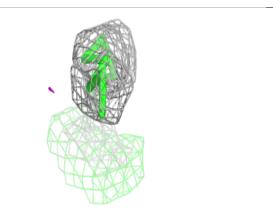


Electron density around OLC A 501:

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

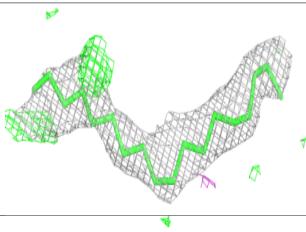


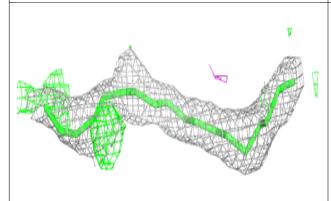


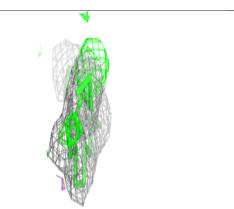


Electron density around OLC A 504:

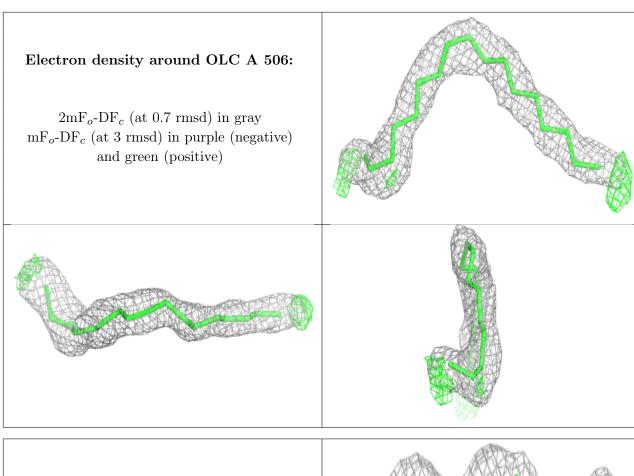
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)







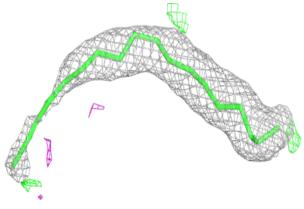


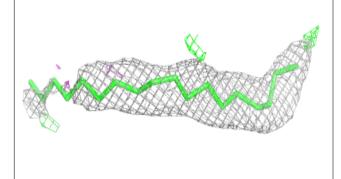


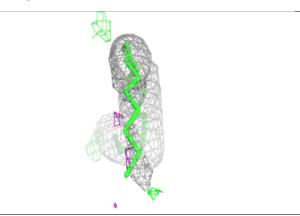


Electron density around OLC A 505:

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

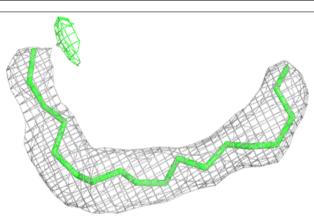


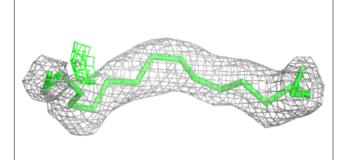


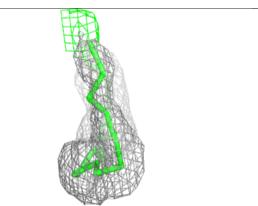


Electron density around OLC A 503:

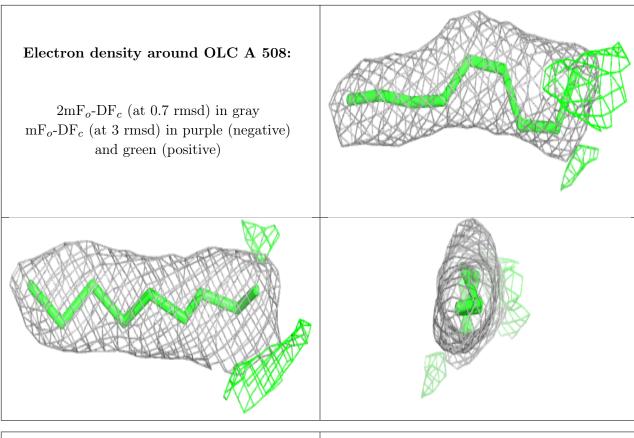
 $2 \mathrm{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)





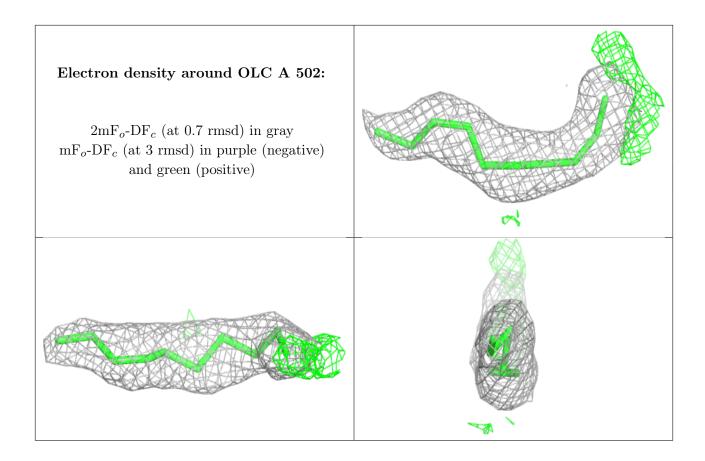






Electron density around OLC A 510: 2mF_o-DF_c (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





6.5 Other polymers (i)

There are no such residues in this entry.

