



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 08:52 PM UTC

PDB ID : 6EXS / pdb_00006exs
Title : Crystal structure of a POT family transporter in complex with thioalcohol conjugated peptide.
Authors : Minhas, G.S.; Newstead, S.
Deposited on : 2017-11-09
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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

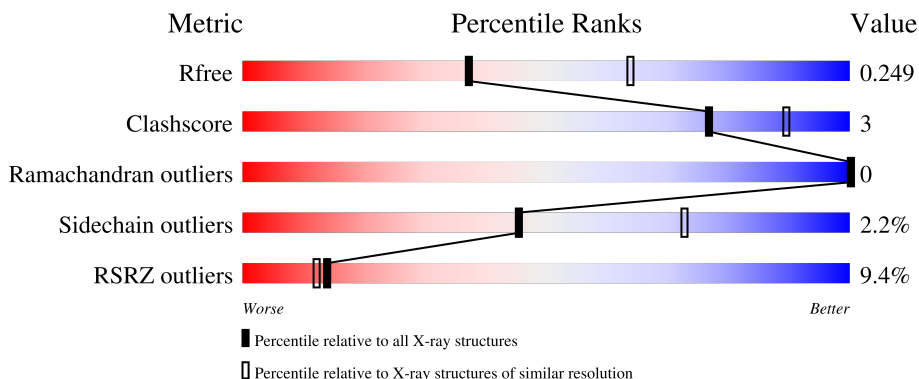
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (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 $\leq 5\%$. 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	487	9% 93% 6%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4101 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.

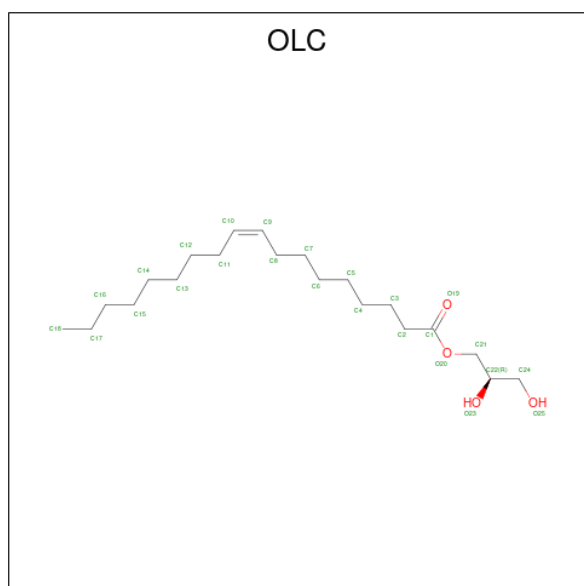
- Molecule 1 is a protein called Peptide ABC transporter permease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	487	3798	2531	608	637	22	0	1	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	218	ALA	LYS	conflict	UNP A0A1L8Y4Q3
A	258	ASP	ASN	conflict	UNP A0A1L8Y4Q3
A	288	GLY	VAL	conflict	UNP A0A1L8Y4Q3

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



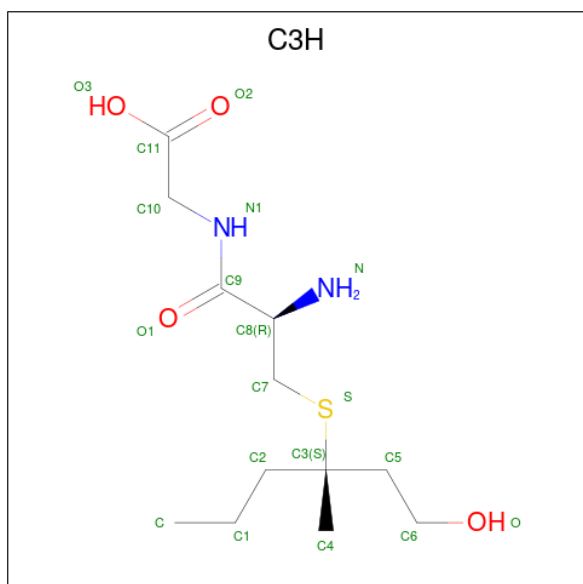
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	25	21	4	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			19	15	4		
2	A	1	Total	C	O	0	0
			13	9	4		
2	A	1	Total	C	O	0	0
			20	16	4		
2	A	1	Total	C	O	0	0
			25	21	4		
2	A	1	Total	C	O	0	0
			13	9	4		
2	A	1	Total	C	O	0	0
			16	12	4		
2	A	1	Total	C	O	0	0
			16	12	4		
2	A	1	Total	C	O	0	0
			13	9	4		
2	A	1	Total	C	O	0	0
			12	8	4		
2	A	1	Total	C	O	0	0
			12	8	4		
2	A	1	Total	C	O	0	0
			12	8	4		
2	A	1	Total	C	O	0	0
			12	8	4		

- Molecule 3 is 2-[[[(2 {R})-2-azanyl-3-[(3 {S})-3-methyl-1-oxidanyl-hexan-3-yl]sulfanyl-propa noyl]amino]ethanoic acid (CCD ID: C3H) (formula: C₁₂H₂₄N₂O₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			19	12	2	4	1		

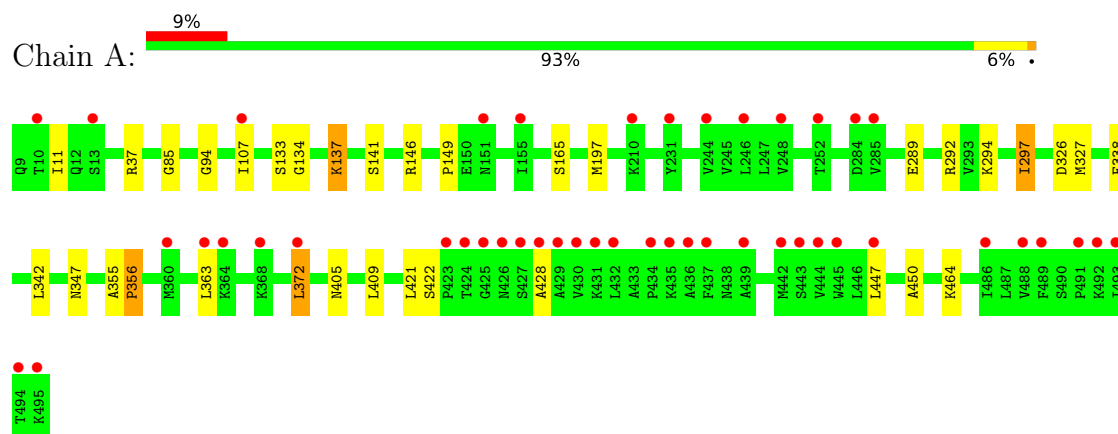
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	76	Total	O	0	0
			76	76		

3 Residue-property plots

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: Peptide ABC transporter permease



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.04Å 55.58Å 100.87Å 90.00° 104.75° 90.00°	Depositor
Resolution (Å)	48.29 – 2.50 48.29 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.5 (48.29-2.50) 99.4 (48.29-2.50)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.64 (at 2.51Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.211 , 0.235 0.222 , 0.249	Depositor DCC
R_{free} test set	1137 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	43.9	Xtriage
Anisotropy	0.400	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 69.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.026 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4101	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.72% 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: C3H, 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).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.90	1/3893 (0.0%)	1.44	6/5283 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	297	ILE	CA-CB	5.24	1.56	1.54

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	94	GLY	N-CA-C	-6.02	105.05	112.33
1	A	356	PRO	CA-C-N	5.46	127.53	120.70
1	A	356	PRO	C-N-CA	5.46	127.53	120.70
1	A	326	ASP	CA-CB-CG	5.41	118.01	112.60
1	A	165	SER	CA-C-N	5.13	127.11	120.70
1	A	165	SER	C-N-CA	5.13	127.11	120.70

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	3798	0	3979	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	208	0	271	4	0
3	A	19	0	0	2	0
4	A	76	0	0	0	0
All	All	4101	0	4250	24	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.

All (24) 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:37:ARG:HH12	1:A:137:LYS:HZ1	1.48	0.60
1:A:37:ARG:NH1	1:A:137:LYS:HZ1	2.01	0.57
1:A:405:ASN:HB3	2:A:501:OLC:H4A	1.88	0.56
1:A:372:LEU:HD21	1:A:428:ALA:HB2	1.89	0.55
3:A:514:C3H:C1	3:A:514:C3H:C6	2.85	0.55
1:A:37:ARG:HH22	1:A:137:LYS:NZ	2.06	0.53
1:A:37:ARG:NH2	1:A:137:LYS:HZ1	2.08	0.52
1:A:37:ARG:HH22	1:A:137:LYS:HZ1	1.57	0.51
2:A:501:OLC:H6	2:A:507:OLC:H4A	1.92	0.50
1:A:289:GLU:HG2	1:A:292:ARG:HH21	1.78	0.49
1:A:409:LEU:HB2	2:A:501:OLC:H5A	1.94	0.49
1:A:11:ILE:HG21	1:A:149:PRO:HG3	1.95	0.48
1:A:447:LEU:HD23	1:A:450:ALA:HB3	1.96	0.46
1:A:37:ARG:NH2	1:A:137:LYS:NZ	2.64	0.46
1:A:133:SER:O	1:A:137:LYS:HB2	2.16	0.46
1:A:327:MET:HE3	1:A:338:PHE:O	2.17	0.45
1:A:107:ILE:CG1	1:A:197:MET:HG3	2.47	0.45
1:A:107:ILE:HG12	1:A:197:MET:HG3	1.99	0.44
1:A:85:GLY:HA3	1:A:134:GLY:O	2.18	0.43
1:A:37:ARG:CZ	1:A:137:LYS:HZ1	2.32	0.43
1:A:347:ASN:HB2	3:A:514:C3H:C6	2.50	0.41
1:A:355:ALA:N	1:A:356:PRO:HD2	2.36	0.41
2:A:501:OLC:H3A	2:A:506:OLC:H4A	2.01	0.41
1:A:294:LYS:HA	1:A:297:ILE:HD12	2.01	0.41

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	486/487 (100%)	480 (99%)	6 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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	410/410 (100%)	401 (98%)	9 (2%)	45	73

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	137	LYS
1	A	141	SER
1	A	146	ARG
1	A	342	LEU
1	A	363	LEU
1	A	372	LEU
1	A	421	LEU
1	A	422	SER
1	A	464	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	185	ASN
1	A	221	ASN
1	A	426	ASN
1	A	468	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

14 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	$\# Z > 2$
2	OLC	A	506	-	12,12,24	0.25	0	13,13,25	0.27	0
2	OLC	A	508	-	15,15,24	0.24	0	16,16,25	0.23	0
2	OLC	A	511	-	11,11,24	0.25	0	12,12,25	0.20	0
2	OLC	A	504	-	19,19,24	0.24	0	20,20,25	0.34	0
2	OLC	A	505	-	24,24,24	0.22	0	25,25,25	0.22	0
2	OLC	A	512	-	11,11,24	0.27	0	12,12,25	0.27	0
2	OLC	A	503	-	12,12,24	0.25	0	13,13,25	0.35	0
2	OLC	A	509	-	12,12,24	0.23	0	13,13,25	0.25	0
2	OLC	A	510	-	11,11,24	0.23	0	12,12,25	0.20	0
2	OLC	A	502	-	18,18,24	0.26	0	19,19,25	0.33	0
3	C3H	A	514	-	17,18,18	0.41	0	17,23,23	0.94	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	OLC	A	513	-	11,11,24	0.26	0	12,12,25	0.28	0
2	OLC	A	501	-	24,24,24	0.29	0	25,25,25	0.41	0
2	OLC	A	507	-	15,15,24	0.23	0	16,16,25	0.38	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	506	-	-	0/12/12/24	-
2	OLC	A	508	-	-	3/15/15/24	-
2	OLC	A	511	-	-	2/11/11/24	-
2	OLC	A	504	-	-	7/19/19/24	-
2	OLC	A	505	-	-	4/24/24/24	-
2	OLC	A	512	-	-	0/11/11/24	-
2	OLC	A	503	-	-	4/12/12/24	-
2	OLC	A	509	-	-	0/12/12/24	-
2	OLC	A	510	-	-	0/11/11/24	-
2	OLC	A	502	-	-	2/18/18/24	-
3	C3H	A	514	-	-	7/23/23/23	-
2	OLC	A	513	-	-	3/11/11/24	-
2	OLC	A	501	-	-	6/24/24/24	-
2	OLC	A	507	-	-	0/15/15/24	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	514	C3H	C7-S-C3	3.46	111.47	104.57

There are no chirality outliers.

All (38) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	514	C3H	O1-C9-N1-C10
3	A	514	C3H	S-C7-C8-N
3	A	514	C3H	C1-C2-C3-S
3	A	514	C3H	C1-C2-C3-C5

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Mol	Chain	Res	Type	Atoms
3	A	514	C3H	C3-C5-C6-O
3	A	514	C3H	C8-C9-N1-C10
2	A	503	OLC	C1-C2-C3-C4
2	A	505	OLC	C3-C4-C5-C6
2	A	501	OLC	C11-C12-C13-C14
2	A	501	OLC	C12-C13-C14-C15
2	A	502	OLC	C9-C10-C11-C12
2	A	511	OLC	O20-C21-C22-O23
2	A	505	OLC	C2-C3-C4-C5
2	A	502	OLC	C6-C7-C8-C9
2	A	505	OLC	C4-C5-C6-C7
2	A	504	OLC	C2-C3-C4-C5
2	A	511	OLC	O20-C21-C22-C24
2	A	508	OLC	C5-C6-C7-C8
2	A	501	OLC	C15-C16-C17-C18
2	A	503	OLC	C2-C3-C4-C5
2	A	504	OLC	C3-C4-C5-C6
2	A	504	OLC	C4-C5-C6-C7
3	A	514	C3H	S-C7-C8-C9
2	A	504	OLC	C5-C6-C7-C8
2	A	501	OLC	C2-C3-C4-C5
2	A	504	OLC	C9-C10-C11-C12
2	A	504	OLC	O20-C21-C22-O23
2	A	513	OLC	O23-C22-C24-O25
2	A	505	OLC	C7-C8-C9-C10
2	A	501	OLC	C1-C2-C3-C4
2	A	513	OLC	C21-C22-C24-O25
2	A	504	OLC	O20-C21-C22-C24
2	A	503	OLC	O19-C1-O20-C21
2	A	508	OLC	C21-C22-C24-O25
2	A	513	OLC	O20-C21-C22-O23
2	A	508	OLC	O20-C1-C2-C3
2	A	503	OLC	C2-C1-O20-C21
2	A	501	OLC	C5-C6-C7-C8

There are no ring outliers.

4 monomers are involved in 6 short contacts:

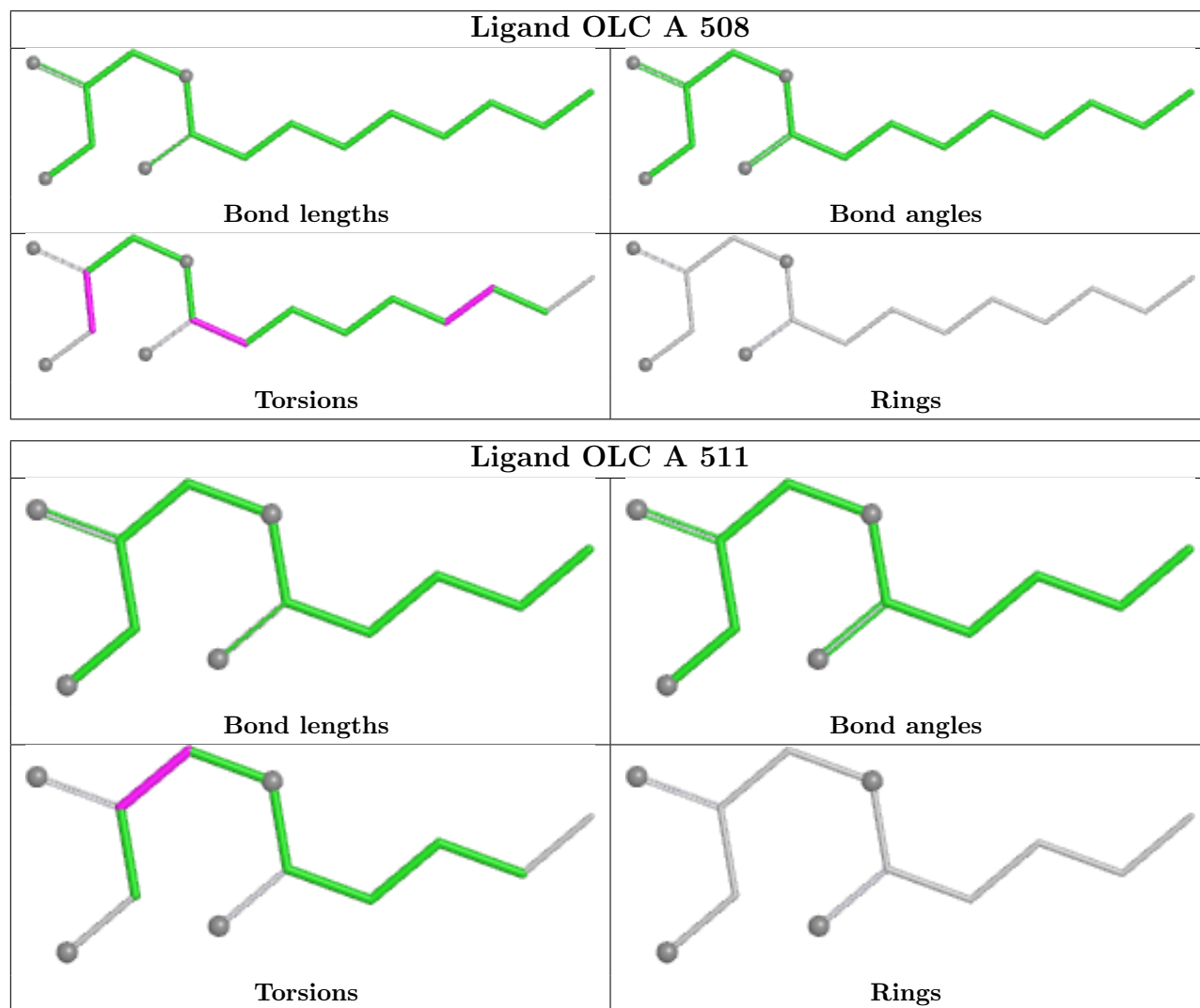
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	506	OLC	1	0
3	A	514	C3H	2	0
2	A	501	OLC	4	0

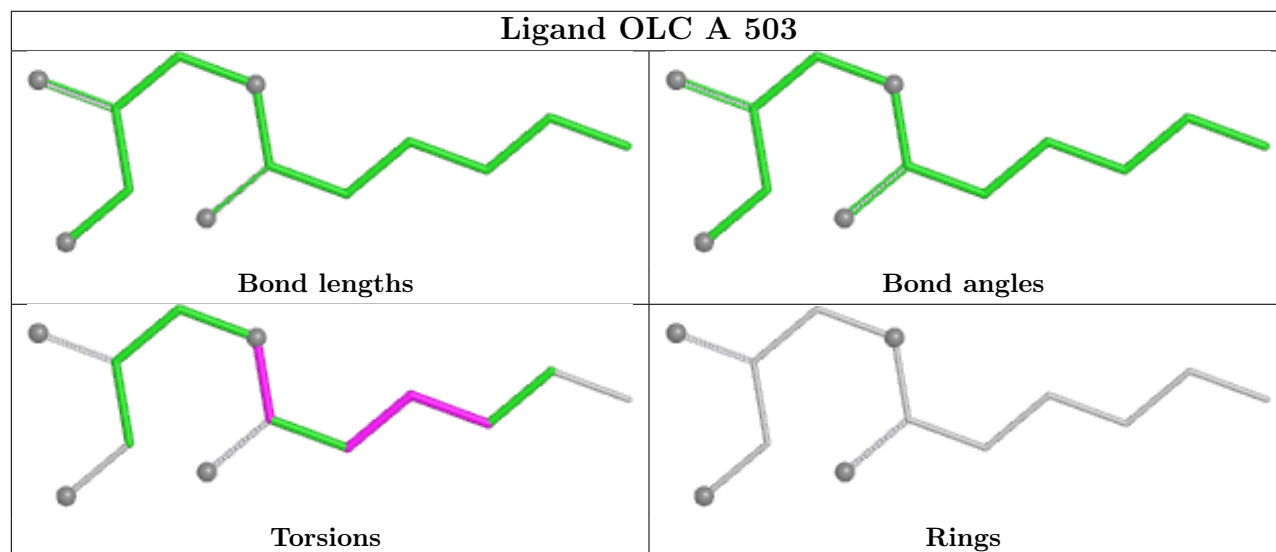
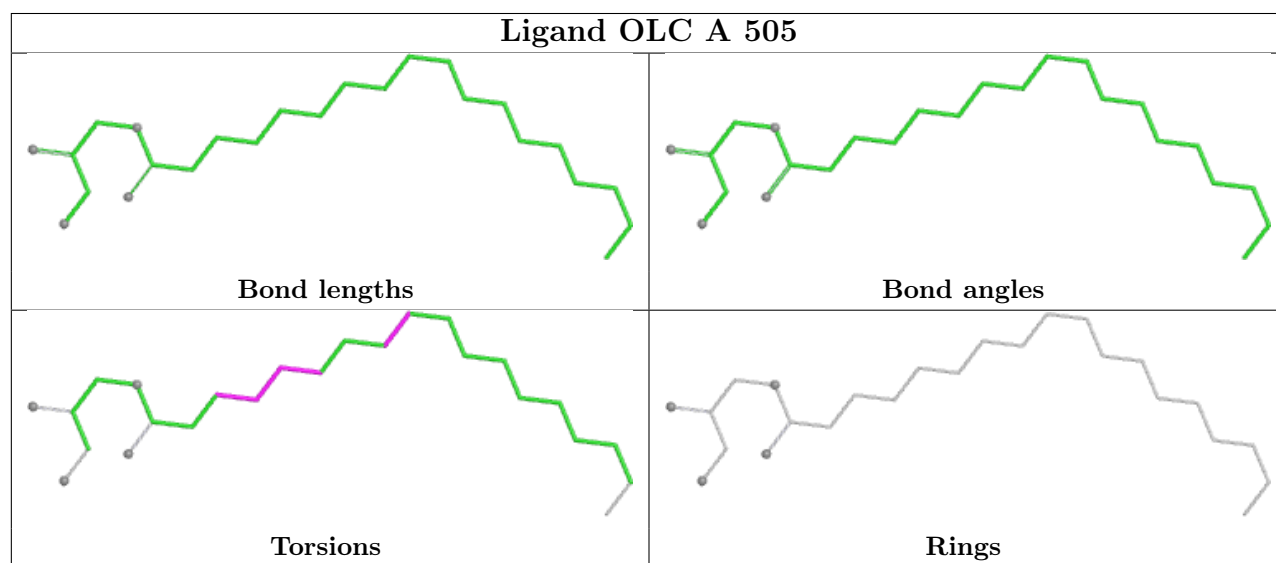
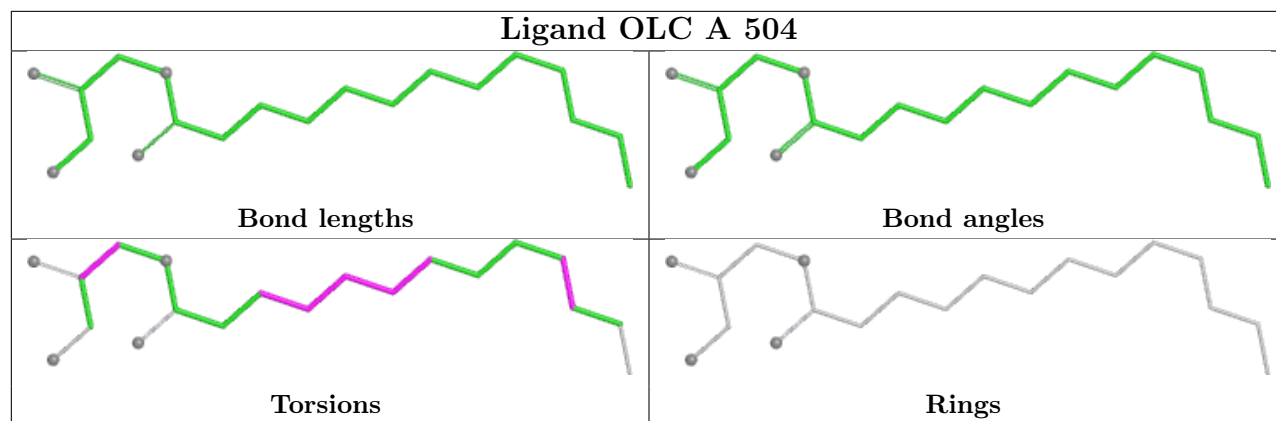
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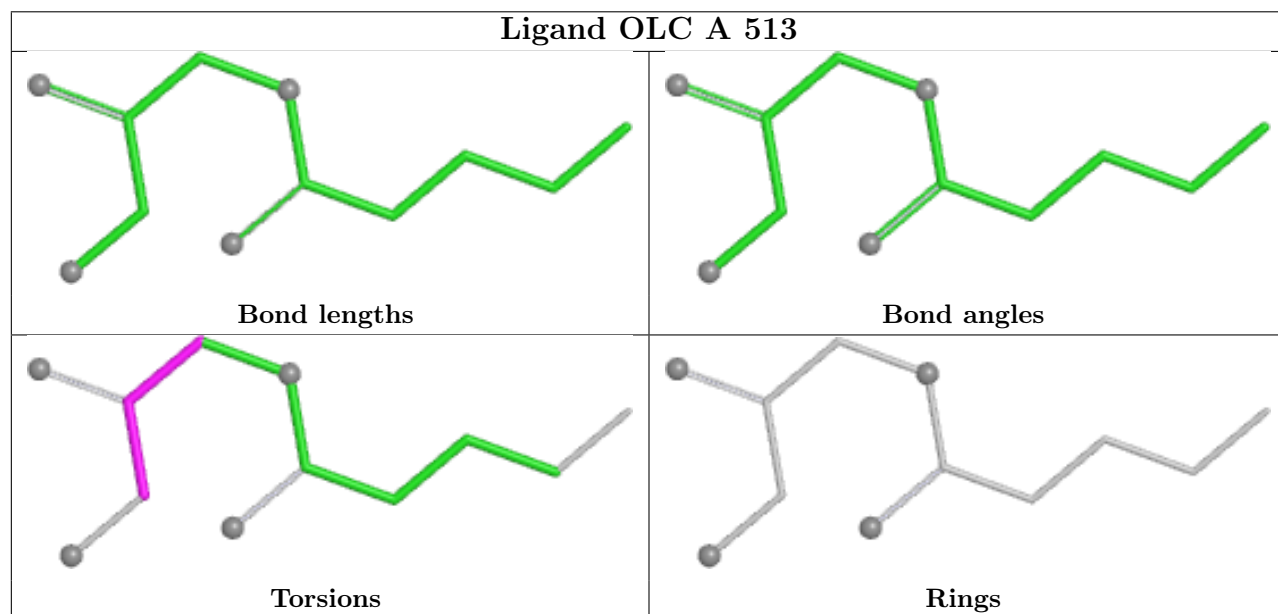
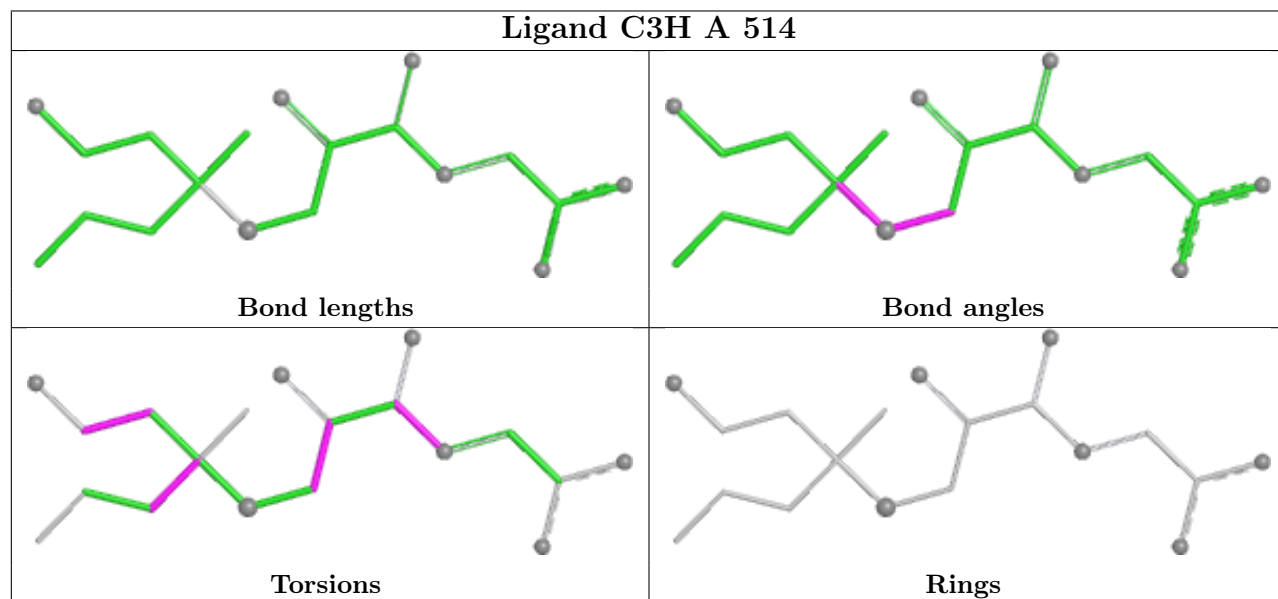
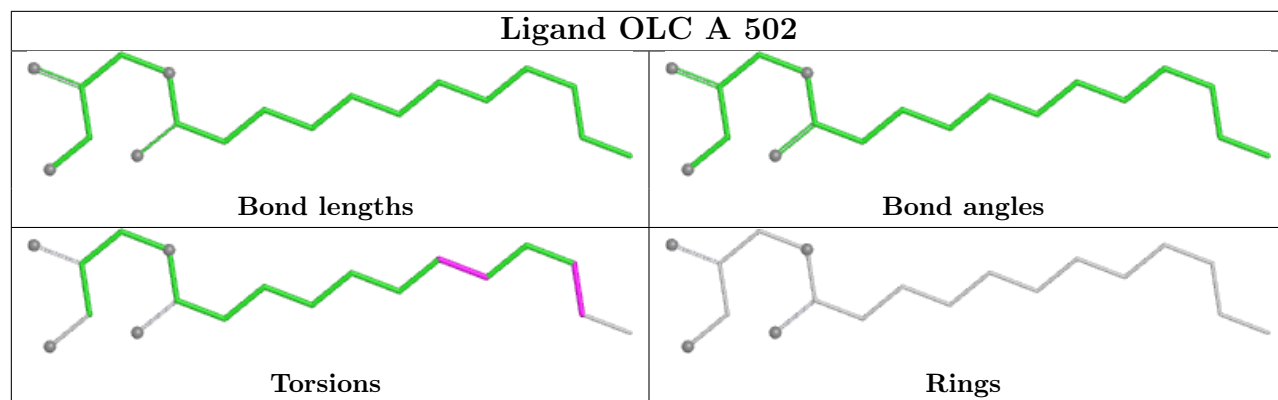
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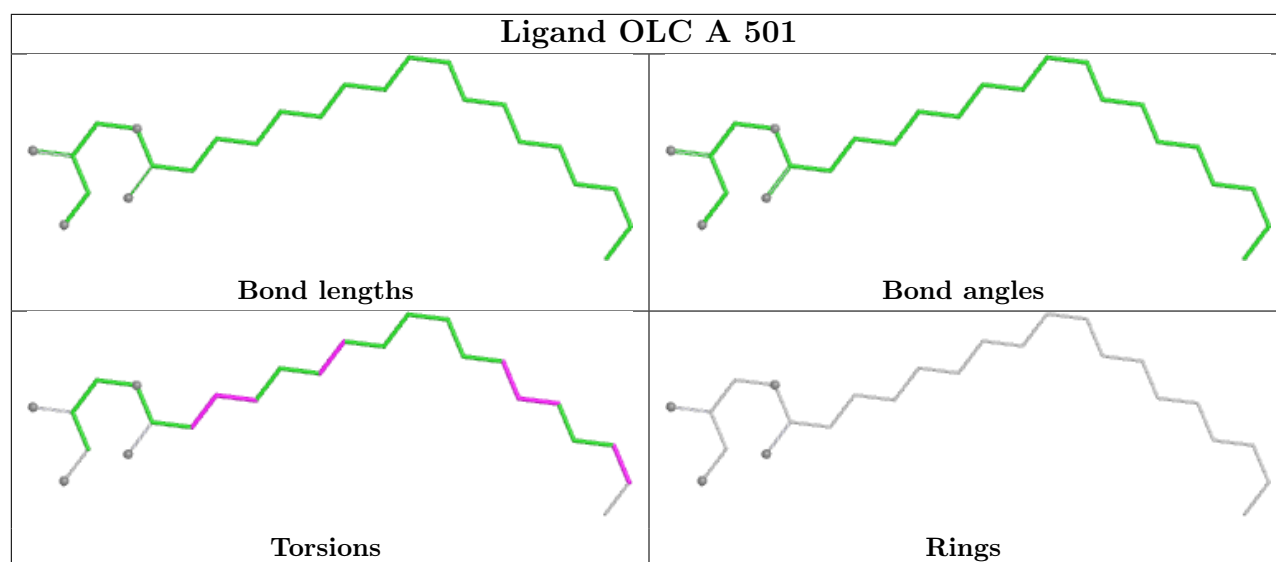
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	507	OLC	1	0

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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	487/487 (100%)	0.53	46 (9%)	14 12	21, 49, 101, 135	1 (0%)

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	424	THR	5.7
1	A	425	GLY	5.3
1	A	432	LEU	4.9
1	A	429	ALA	4.4
1	A	10	THR	4.0
1	A	435	LYS	3.9
1	A	430	VAL	3.8
1	A	444	VAL	3.5
1	A	284	ASP	3.5
1	A	445	TRP	3.4
1	A	436	ALA	3.4
1	A	488	VAL	3.2
1	A	495	LYS	3.1
1	A	447	LEU	2.9
1	A	248	VAL	2.8
1	A	364	LYS	2.8
1	A	423	PRO	2.8
1	A	372	LEU	2.8
1	A	428	ALA	2.7
1	A	427	SER	2.7
1	A	493	ILE	2.6
1	A	439	ALA	2.6
1	A	434	PRO	2.5
1	A	431	LYS	2.5
1	A	494	THR	2.4
1	A	210	LYS	2.3
1	A	426	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	363	LEU	2.3
1	A	492	LYS	2.3
1	A	442	MET	2.2
1	A	491	PRO	2.2
1	A	151	ASN	2.2
1	A	13	SER	2.2
1	A	252	THR	2.2
1	A	246	LEU	2.1
1	A	231	TYR	2.1
1	A	360	MET	2.1
1	A	443	SER	2.1
1	A	437	PHE	2.1
1	A	489	PHE	2.1
1	A	244	VAL	2.1
1	A	285	VAL	2.1
1	A	486	ILE	2.1
1	A	107	ILE	2.0
1	A	368	LYS	2.0
1	A	155	ILE	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 oligosaccharides 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.

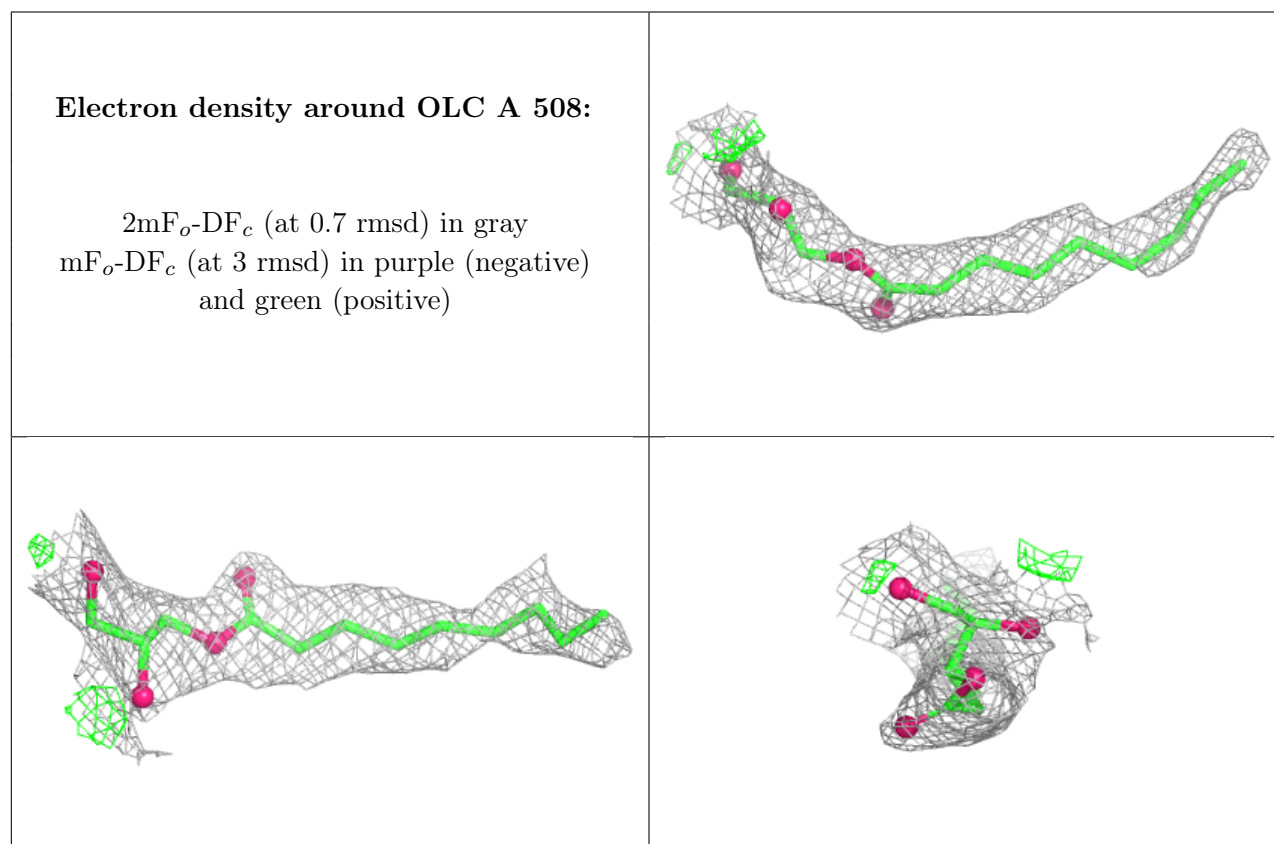
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	OLC	A	510	12/25	0.69	0.24	81,86,90,91	0
2	OLC	A	508	16/25	0.79	0.19	77,83,91,93	0
2	OLC	A	512	12/25	0.79	0.23	88,91,93,93	0
2	OLC	A	506	13/25	0.80	0.18	81,85,86,87	0

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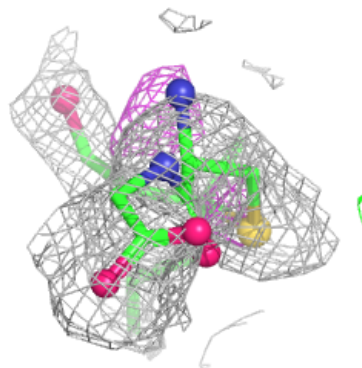
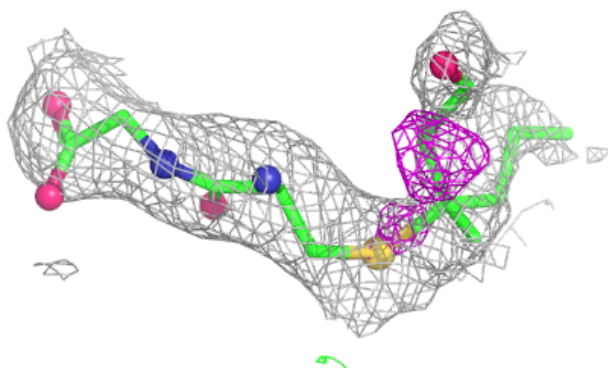
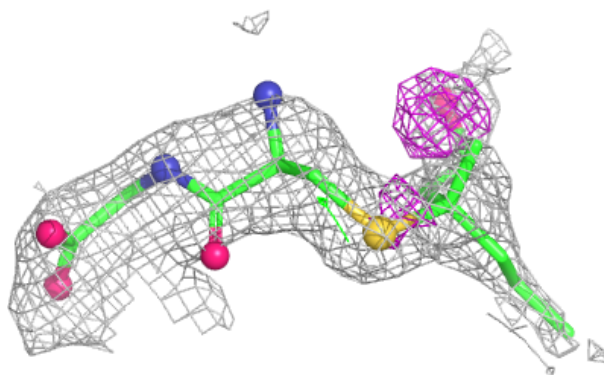
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	C3H	A	514	19/19	0.82	0.21	41,63,68,69	19
2	OLC	A	511	12/25	0.83	0.22	78,81,84,86	0
2	OLC	A	509	13/25	0.85	0.17	82,83,85,85	0
2	OLC	A	504	20/25	0.86	0.17	72,77,89,90	0
2	OLC	A	505	25/25	0.87	0.16	67,73,78,79	0
2	OLC	A	513	12/25	0.87	0.16	70,72,75,76	0
2	OLC	A	502	19/25	0.87	0.13	51,57,69,69	0
2	OLC	A	501	25/25	0.88	0.16	48,67,79,82	0
2	OLC	A	503	13/25	0.88	0.16	79,85,89,89	0
2	OLC	A	507	16/25	0.93	0.11	47,51,66,68	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.

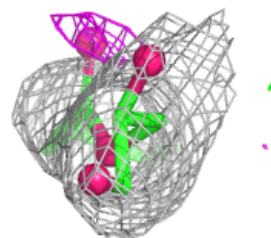
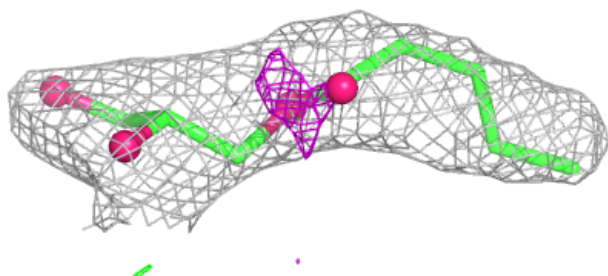
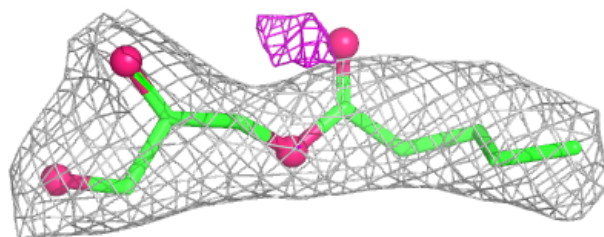


Electron density around C3H A 514:

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

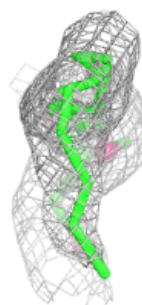
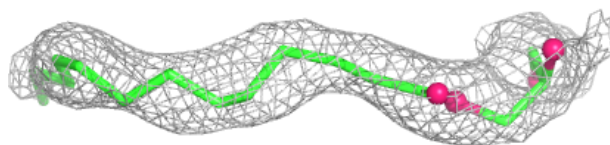
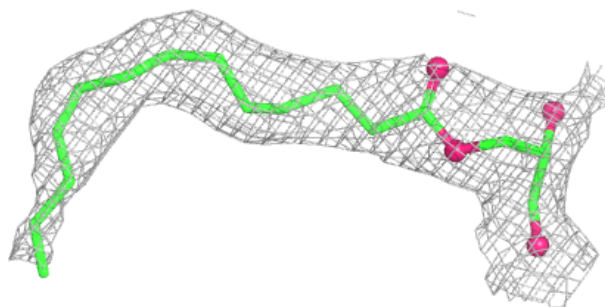
**Electron density around OLC A 511:**

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

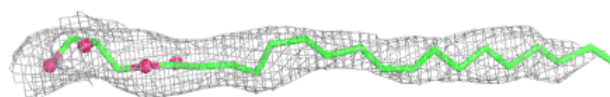
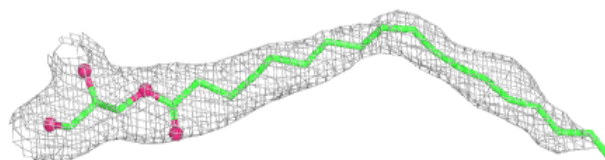


Electron density around OLC A 504:

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

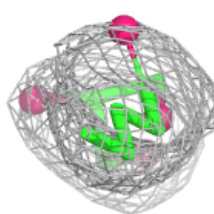
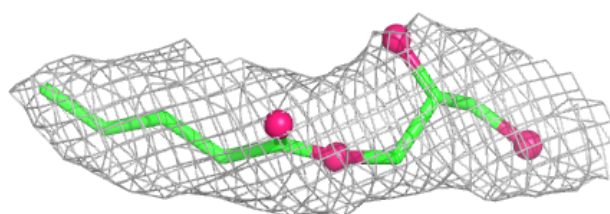
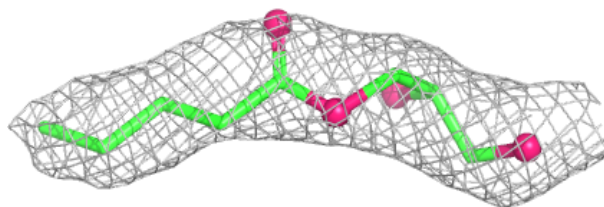
**Electron density around OLC A 505:**

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

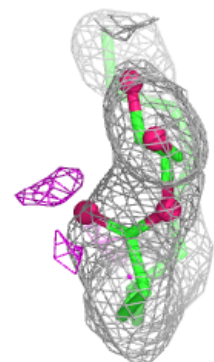
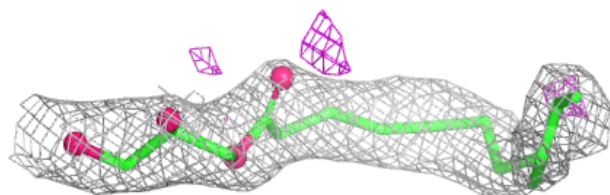
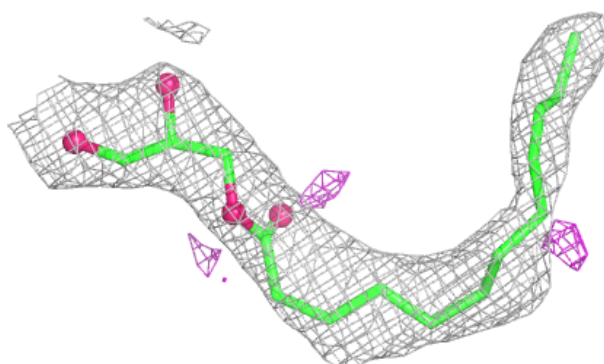


Electron density around OLC A 513:

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

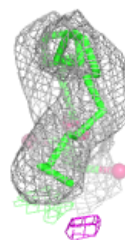
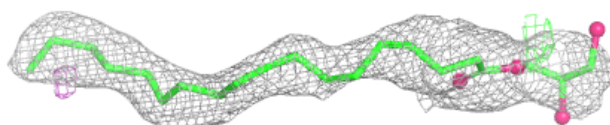
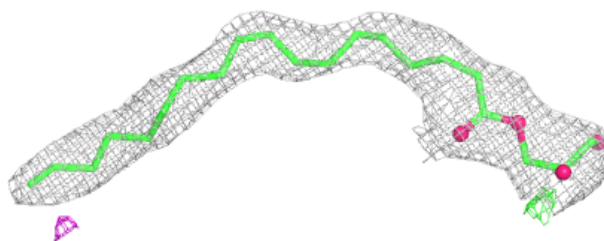
**Electron density around OLC A 502:**

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

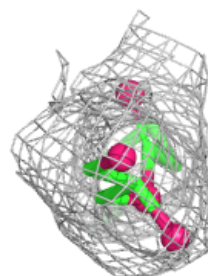
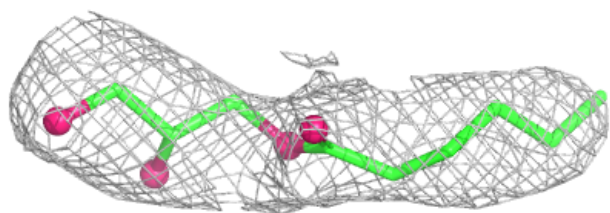
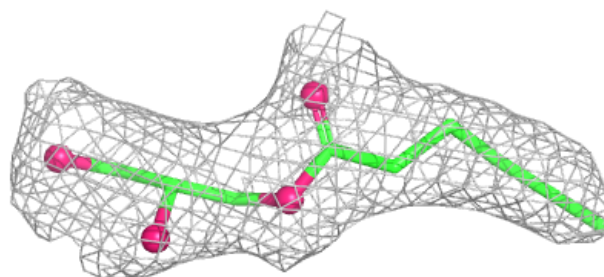


Electron density around OLC A 501:

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

**Electron density around OLC A 503:**

$2mF_o-DF_c$ (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.