



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 07:44 AM UTC

PDB ID : 4PHU / pdb_00004phu
Title : Crystal structure of Human GPR40 bound to allosteric agonist TAK-875
Authors : Srivastava, A.; Yano, J.K.; Hirozane, Y.; Kefala, G.; Snell, G.; Lane, W.; Gruswitz, F.; Ivetac, A.; Aertgeerts, K.; Nguyen, J.; Jennings, A.; Okada, K.
Deposited on : 2014-05-07
Resolution : 2.33 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

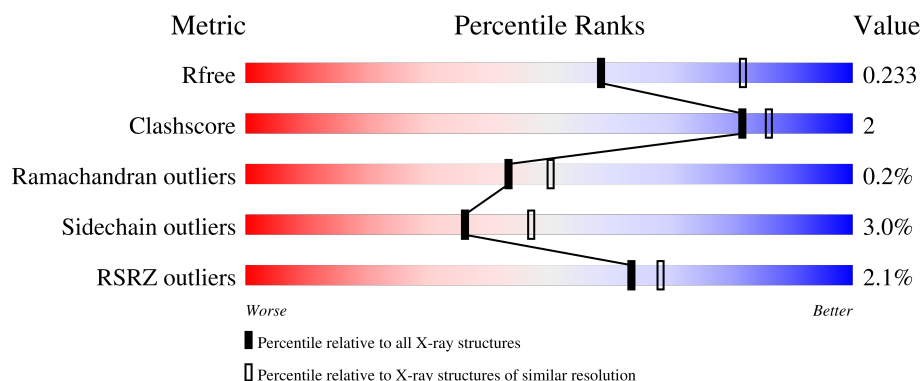
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

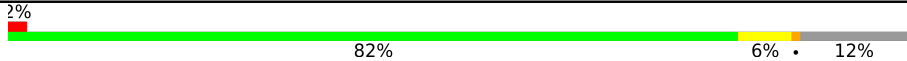
The reported resolution of this entry is 2.33 Å.

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	3031 (2.36-2.32)
Clashscore	190562	3127 (2.36-2.32)
Ramachandran outliers	187476	3095 (2.36-2.32)
Sidechain outliers	187428	3095 (2.36-2.32)
RSRZ outliers	180081	3033 (2.36-2.32)

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	491	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3503 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 Free fatty acid receptor 1, Lysozyme.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	434	3286	2131	567	574	14	0	3	0

There are 39 discrepancies between the modelled and reference sequences:

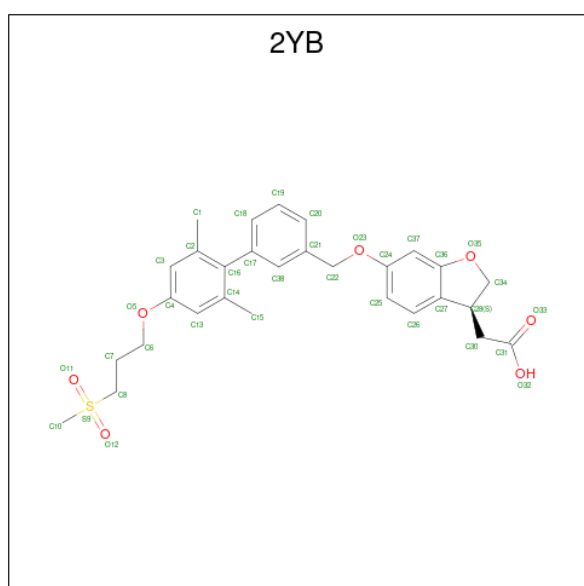
Chain	Residue	Modelled	Actual	Comment	Reference
A	-12	MET	-	expression tag	UNP O14842
A	-11	ASP	-	expression tag	UNP O14842
A	-10	TYR	-	expression tag	UNP O14842
A	-9	LYS	-	expression tag	UNP O14842
A	-8	ASP	-	expression tag	UNP O14842
A	-7	ASP	-	expression tag	UNP O14842
A	-6	ASP	-	expression tag	UNP O14842
A	-5	ASP	-	expression tag	UNP O14842
A	-4	LYS	-	expression tag	UNP O14842
A	-3	GLY	-	expression tag	UNP O14842
A	-2	SER	-	expression tag	UNP O14842
A	-1	ALA	-	expression tag	UNP O14842
A	0	THR	-	expression tag	UNP O14842
A	42	ALA	LEU	engineered mutation	UNP O14842
A	88	ALA	PHE	engineered mutation	UNP O14842
A	103	ALA	GLY	engineered mutation	UNP O14842
A	202	PHE	TYR	engineered mutation	UNP O14842
A	900	GLY	-	linker	UNP O14842
A	901	SER	-	linker	UNP O14842
A	1054	THR	CYS	engineered mutation	UNP P00720
A	1097	ALA	CYS	engineered mutation	UNP P00720
A	1902	GLY	-	linker	UNP P00720
A	1903	SER	-	linker	UNP P00720
A	2301	ALA	-	expression tag	UNP O14842
A	2302	GLU	-	expression tag	UNP O14842
A	2303	ASN	-	expression tag	UNP O14842
A	2304	LEU	-	expression tag	UNP O14842

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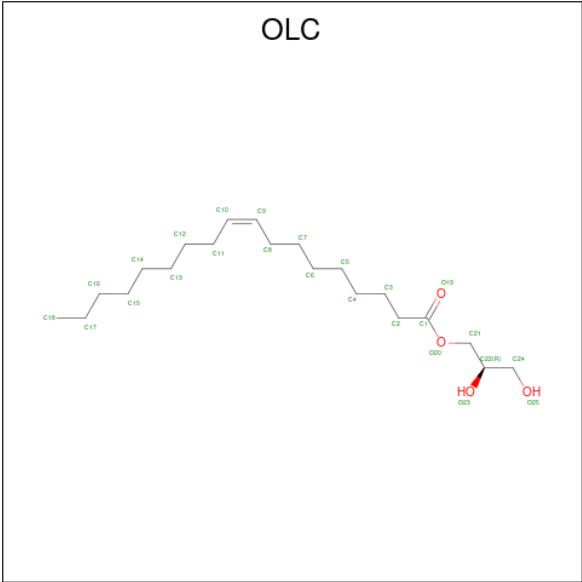
Chain	Residue	Modelled	Actual	Comment	Reference
A	2305	TYR	-	expression tag	UNP O14842
A	2306	PHE	-	expression tag	UNP O14842
A	2307	GLN	-	expression tag	UNP O14842
A	2308	GLY	-	expression tag	UNP O14842
A	2309	HIS	-	expression tag	UNP O14842
A	2310	HIS	-	expression tag	UNP O14842
A	2311	HIS	-	expression tag	UNP O14842
A	2312	HIS	-	expression tag	UNP O14842
A	2313	HIS	-	expression tag	UNP O14842
A	2314	HIS	-	expression tag	UNP O14842
A	2315	HIS	-	expression tag	UNP O14842
A	2316	HIS	-	expression tag	UNP O14842

- Molecule 2 is [(3S)-6-({2',6'-dimethyl-4'-[3-(methylsulfonyl)propoxy]biphenyl-3-yl}methoxy)-2,3-dihydro-1-benzofuran-3-yl]acetic acid (CCD ID: 2YB) (formula: C₂₉H₃₂O₇S).



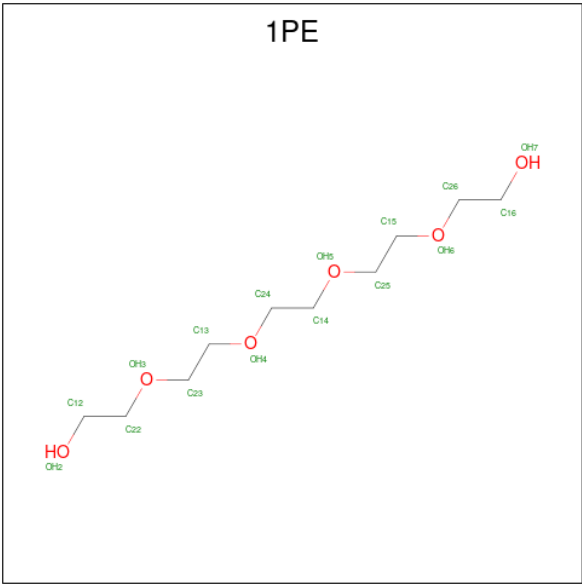
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O	S	0	0
			37	29	7	1		

- Molecule 3 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLC) (formula: C₂₁H₄₀O₄).



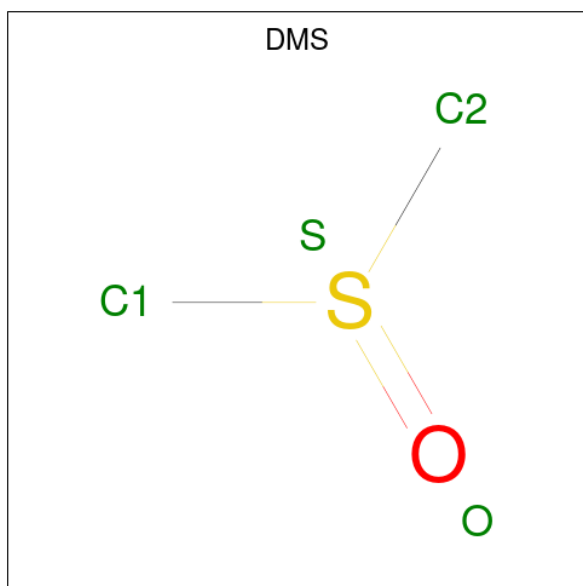
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C 16 16	0	0
3	A	1	Total C 8 8	0	0
3	A	1	Total C O 25 21 4	0	0
3	A	1	Total C 12 12	0	0
3	A	1	Total C 9 9	0	0

- Molecule 4 is PENTAETHYLENE GLYCOL (CCD ID: 1PE) (formula: C₁₀H₂₂O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			16	10	6		

- Molecule 5 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	O	S	0	0
			4	2	1	1		

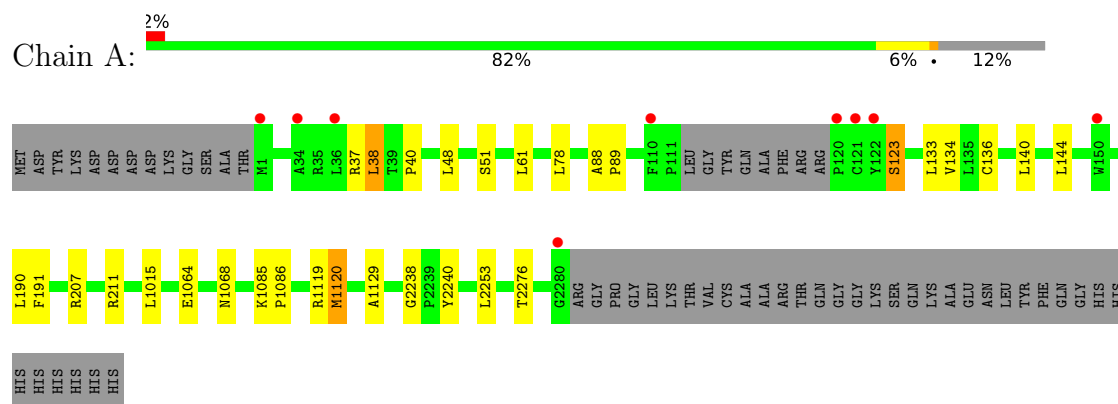
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	90	Total	O	0	0
			90	90		

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: Free fatty acid receptor 1, Lysozyme



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	101.00Å 61.74Å 105.70Å 90.00° 108.90° 90.00°	Depositor
Resolution (Å)	30.00 – 2.33 30.00 – 2.33	Depositor EDS
% Data completeness (in resolution range)	97.8 (30.00-2.33) 97.9 (30.00-2.33)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 2.34Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
R, R_{free}	0.198 , 0.233 0.203 , 0.233	Depositor DCC
R_{free} test set	1312 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	40.2	Xtriage
Anisotropy	0.267	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 41.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.022 for $1/2^*h+3/2^*k, 1/2^*h-1/2^*k, -1/2^*h-1/2^*k-l$ 0.015 for $1/2^*h-3/2^*k, -1/2^*h-1/2^*k, -1/2^*h+1/2^*k-l$	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3503	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.14% 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: DMS, 2YB, OLC, 1PE

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	0.59	0/3377	0.79	0/4604

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3286	0	3342	17	0
2	A	37	0	31	1	0
3	A	70	0	112	0	0
4	A	16	0	22	0	0
5	A	4	0	6	0	0
6	A	90	0	0	0	0
All	All	3503	0	3513	17	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2240:TYR:OH	2:A:2401:2YB:O33	2.12	0.67
1:A:1120:MET:HB3	1:A:1129:ALA:HB2	1.83	0.60
1:A:48:LEU:HD23	1:A:2276:THR:HG21	1.84	0.59
1:A:37:ARG:O	1:A:38:LEU:CB	2.56	0.54
1:A:1120:MET:HG2	1:A:1129:ALA:N	2.27	0.50
1:A:134:VAL:HG22	1:A:190:LEU:CD2	2.41	0.50
1:A:88:ALA:HB3	1:A:89:PRO:HD3	1.93	0.50
1:A:133:LEU:HD13	1:A:133:LEU:C	2.37	0.50
1:A:191:PHE:CZ	1:A:2238:GLY:HA2	2.48	0.48
1:A:140:LEU:O	1:A:144:LEU:HB2	2.14	0.47
1:A:136:CYS:O	1:A:140:LEU:HB2	2.15	0.46
1:A:140:LEU:CD2	1:A:144:LEU:HD22	2.46	0.46
1:A:40:PRO:HA	1:A:123[A]:SER:OG	2.16	0.45
1:A:134:VAL:CG2	1:A:190:LEU:CD2	2.95	0.45
1:A:134:VAL:CG2	1:A:190:LEU:HD21	2.48	0.44
1:A:207:ARG:O	1:A:211:ARG:HG2	2.20	0.41
1:A:1085:LYS:HB3	1:A:1086:PRO:HD3	2.02	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	433/491 (88%)	419 (97%)	13 (3%)	1 (0%)	43 50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	38	LEU

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	335/380 (88%)	324 (97%)	11 (3%)	33	43

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	SER
1	A	61	LEU
1	A	78	LEU
1	A	123[A]	SER
1	A	123[B]	SER
1	A	1015	LEU
1	A	1064	GLU
1	A	1068	ASN
1	A	1119	ARG
1	A	1120	MET
1	A	2253	LEU

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

Mol	Chain	Res	Type
1	A	137	HIS
1	A	1053	ASN
1	A	1144	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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$
3	OLC	A	2404	-	24,24,24	0.98	1 (4%)	25,25,25	0.85	1 (4%)
3	OLC	A	2405	-	11,11,24	0.37	0	10,10,25	0.46	0
3	OLC	A	2403	-	7,7,24	0.41	0	6,6,25	0.52	0
2	2YB	A	2401	-	40,40,40	0.89	2 (5%)	53,57,57	1.49	7 (13%)
4	1PE	A	2407	-	15,15,15	0.45	0	14,14,14	0.30	0
5	DMS	A	2408	-	3,3,3	0.46	0	3,3,3	0.82	0
3	OLC	A	2406	-	8,8,24	0.40	0	7,7,25	0.53	0
3	OLC	A	2402	-	15,15,24	0.29	0	14,14,25	0.40	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
3	OLC	A	2404	-	-	12/24/24/24	-
3	OLC	A	2405	-	-	4/9/9/24	-
3	OLC	A	2403	-	-	1/5/5/24	-
2	2YB	A	2401	-	-	4/21/30/30	0/4/4/4
4	1PE	A	2407	-	-	9/13/13/13	-
3	OLC	A	2406	-	-	2/6/6/24	-
3	OLC	A	2402	-	-	7/13/13/24	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	2404	OLC	O20-C1	4.46	1.46	1.33
2	A	2401	2YB	C8-S9	3.25	1.82	1.78
2	A	2401	2YB	C10-S9	2.15	1.82	1.75

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2401	2YB	C37-C36-C27	-5.69	118.49	123.75
2	A	2401	2YB	C34-O35-C36	4.20	111.03	106.83
2	A	2401	2YB	O32-C31-C30	3.48	124.83	114.00
2	A	2401	2YB	O33-C31-C30	-2.86	114.06	122.84
3	A	2404	OLC	O20-C1-C2	2.81	120.42	111.83
2	A	2401	2YB	O12-S9-C8	-2.76	106.34	108.33
2	A	2401	2YB	C26-C27-C36	2.59	121.29	119.45
2	A	2401	2YB	O35-C36-C27	-2.10	111.95	113.26

There are no chirality outliers.

All (39) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	2404	OLC	O20-C21-C22-O23
4	A	2407	1PE	OH4-C13-C23-OH3
3	A	2402	OLC	C12-C13-C14-C15
3	A	2402	OLC	C13-C14-C15-C16
3	A	2405	OLC	C13-C14-C15-C16
3	A	2404	OLC	C13-C14-C15-C16
3	A	2404	OLC	C14-C15-C16-C17
3	A	2405	OLC	C7-C8-C9-C10
3	A	2406	OLC	C7-C8-C9-C10
3	A	2404	OLC	C10-C11-C12-C13
3	A	2404	OLC	C2-C3-C4-C5
3	A	2404	OLC	C11-C12-C13-C14
4	A	2407	1PE	OH7-C16-C26-OH6
3	A	2404	OLC	O20-C21-C22-C24
3	A	2402	OLC	C6-C7-C8-C9
3	A	2405	OLC	C12-C13-C14-C15
3	A	2404	OLC	C2-C1-O20-C21
3	A	2402	OLC	C11-C12-C13-C14
3	A	2405	OLC	C11-C12-C13-C14
3	A	2406	OLC	C12-C13-C14-C15
2	A	2401	2YB	O5-C6-C7-C8
3	A	2404	OLC	O19-C1-O20-C21

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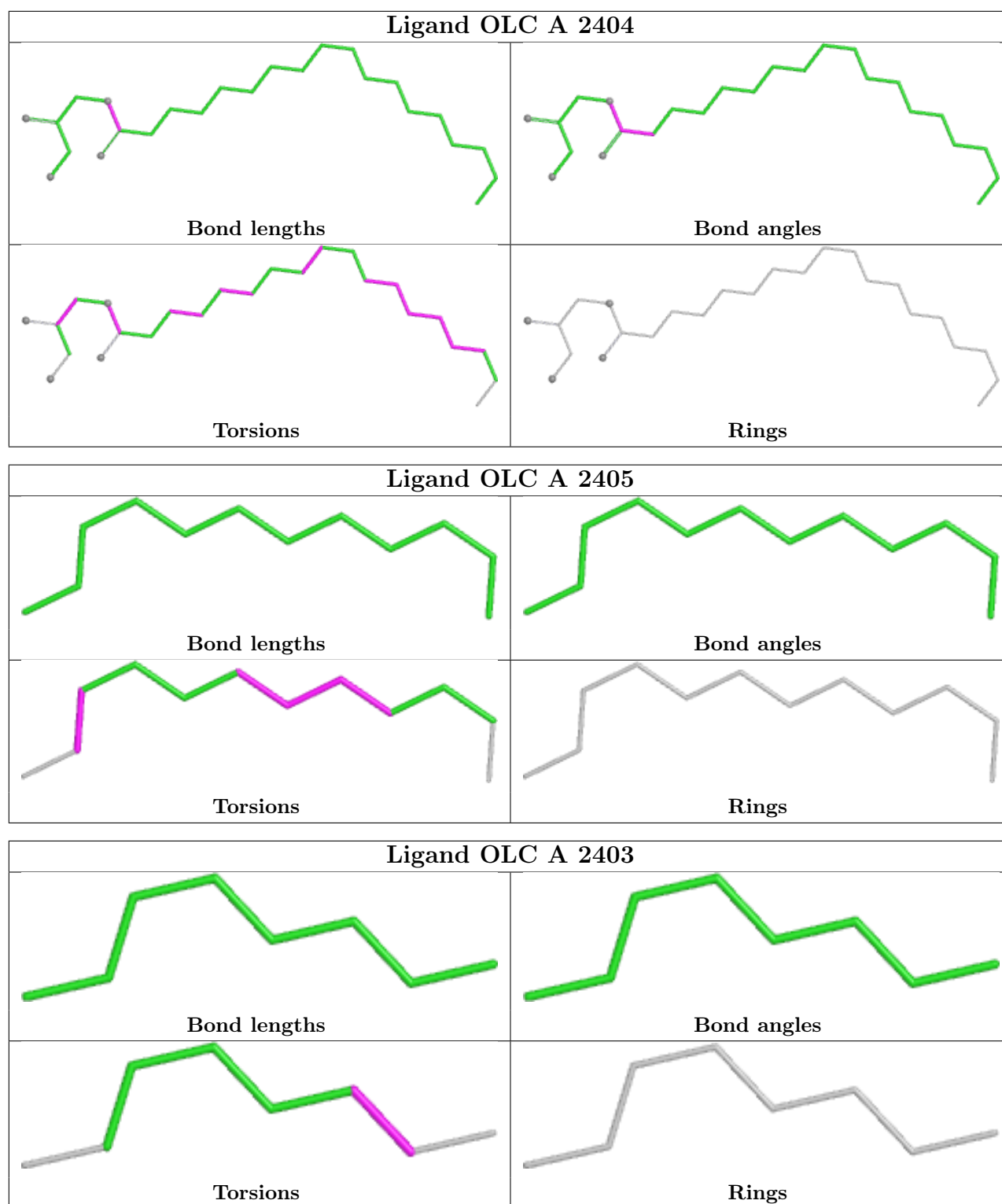
Mol	Chain	Res	Type	Atoms
4	A	2407	1PE	C15-C25-OH5-C14
3	A	2404	OLC	C4-C5-C6-C7
3	A	2402	OLC	C3-C4-C5-C6
3	A	2404	OLC	C7-C8-C9-C10
3	A	2402	OLC	C5-C6-C7-C8
2	A	2401	2YB	C34-C28-C30-C31
4	A	2407	1PE	C14-C24-OH4-C13
4	A	2407	1PE	C13-C23-OH3-C22
3	A	2403	OLC	C11-C12-C13-C14
3	A	2404	OLC	C12-C13-C14-C15
4	A	2407	1PE	C25-C15-OH6-C26
4	A	2407	1PE	C23-C13-OH4-C24
2	A	2401	2YB	C28-C30-C31-O32
2	A	2401	2YB	C28-C30-C31-O33
4	A	2407	1PE	OH2-C12-C22-OH3
3	A	2402	OLC	C7-C8-C9-C10
4	A	2407	1PE	OH6-C15-C25-OH5

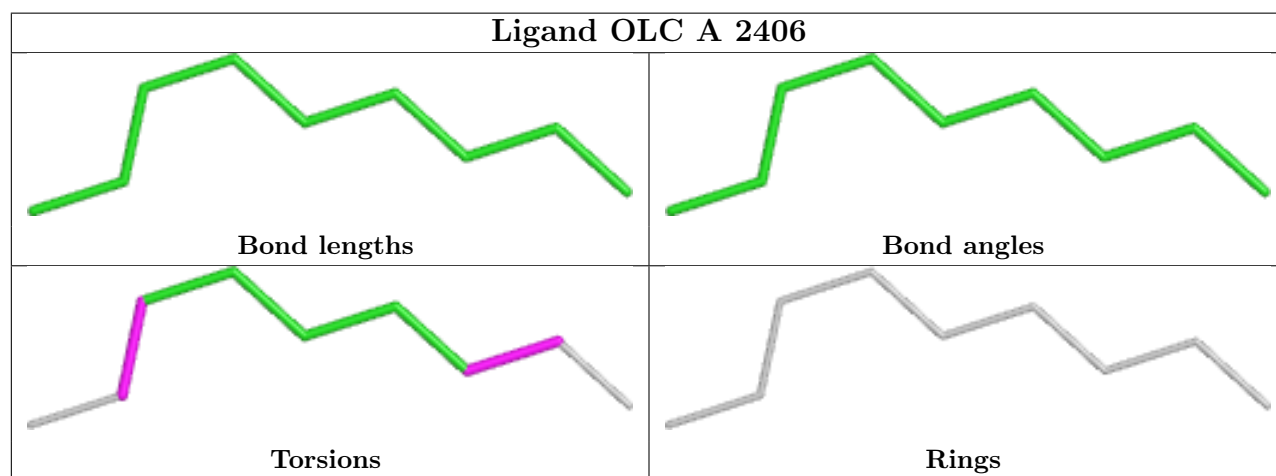
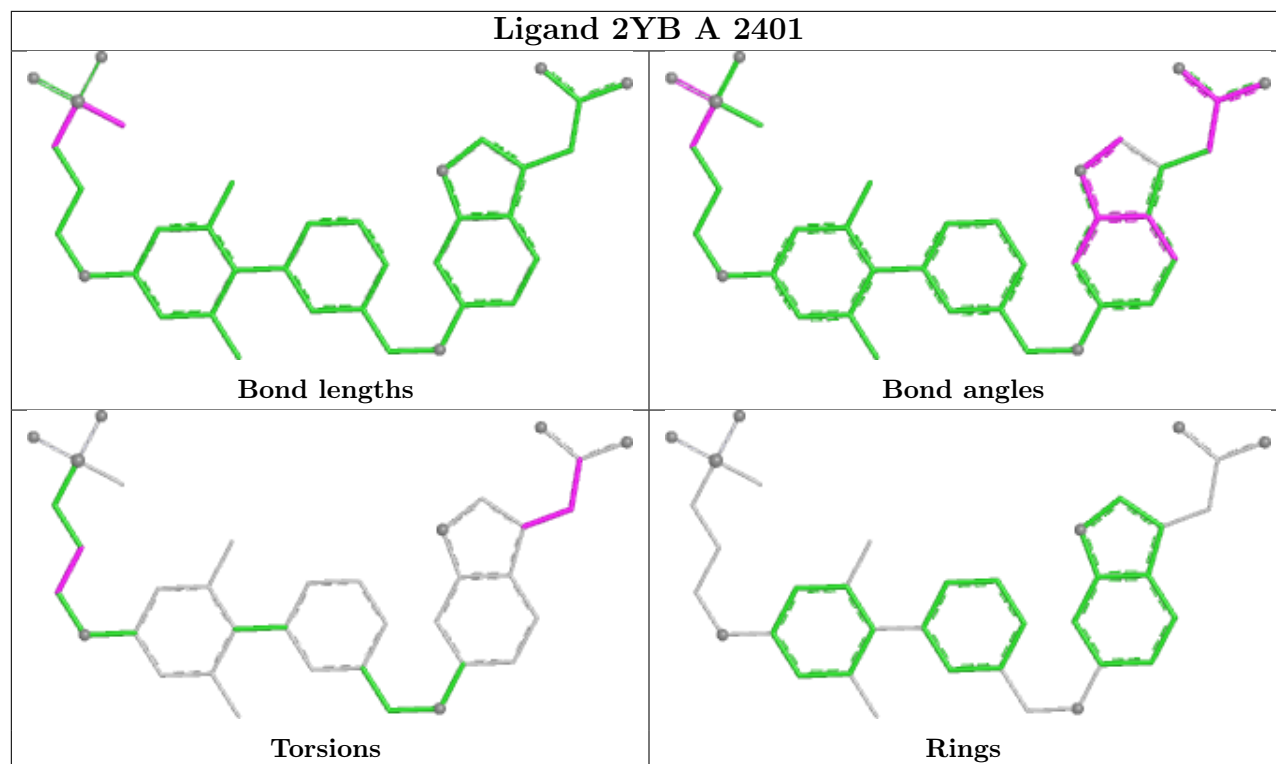
There are no ring outliers.

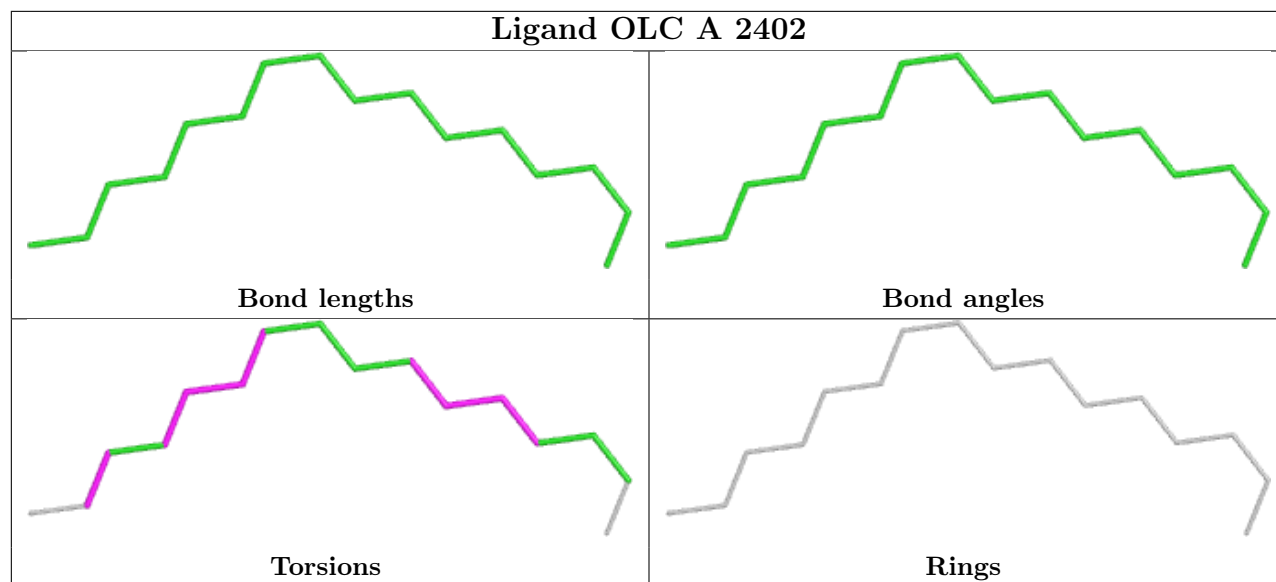
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2401	2YB	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 [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	434/491 (88%)	0.12	9 (2%) 63 68	24, 44, 80, 92	3 (0%)

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	120	PRO	5.4
1	A	1	MET	3.4
1	A	36	LEU	3.2
1	A	122	TYR	2.9
1	A	150	TRP	2.5
1	A	34	ALA	2.3
1	A	110	PHE	2.2
1	A	2280	GLY	2.2
1	A	121	CYS	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](#)

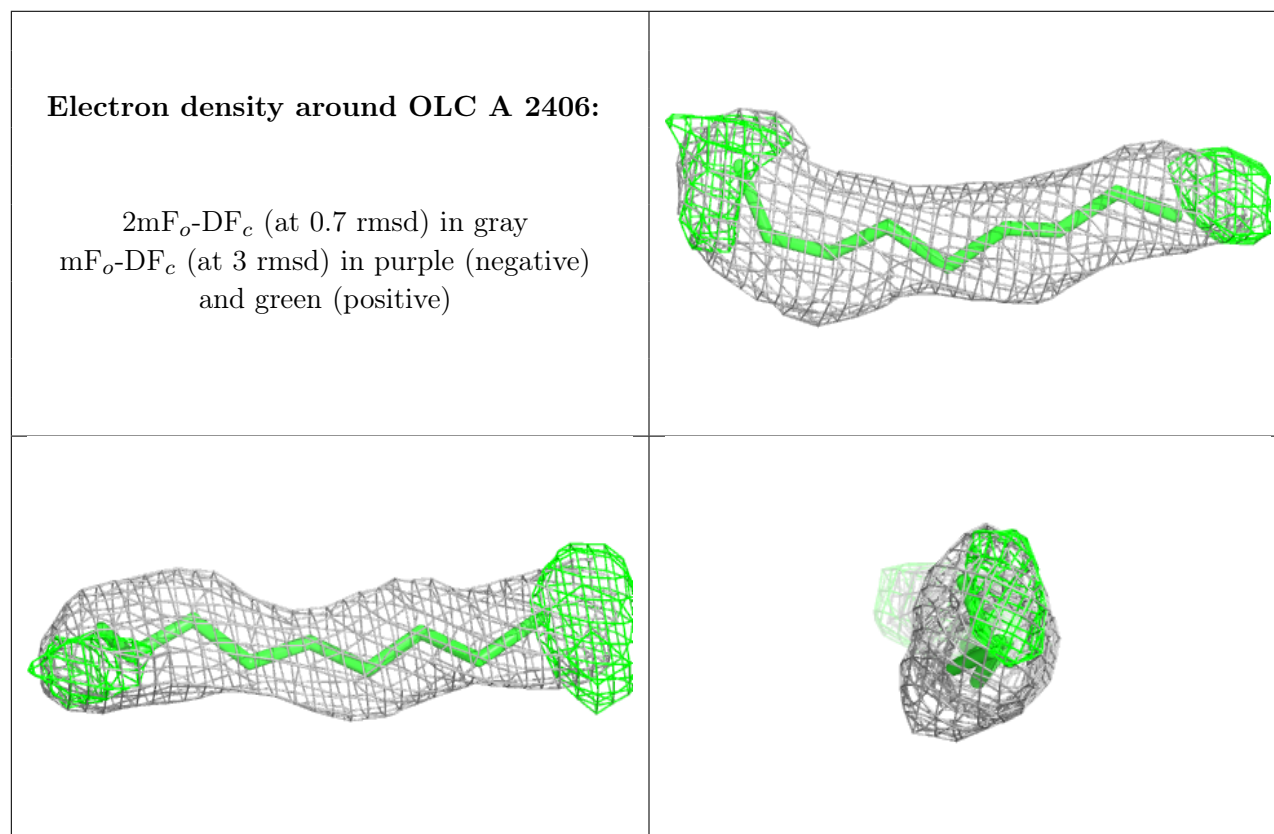
There are no oligosaccharides in this entry.

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.

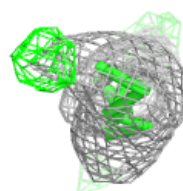
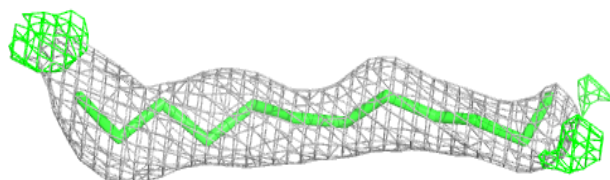
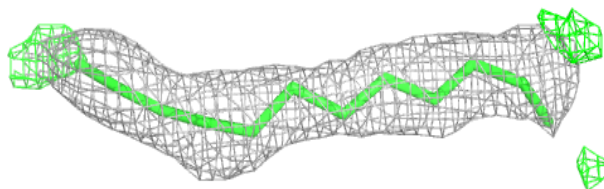
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	DMS	A	2408	4/4	0.76	0.22	61,67,68,74	0
3	OLC	A	2406	9/25	0.80	0.21	62,65,67,67	0
3	OLC	A	2405	12/25	0.83	0.19	55,58,66,68	0
3	OLC	A	2404	25/25	0.84	0.19	52,59,91,92	0
3	OLC	A	2403	8/25	0.86	0.19	56,60,63,63	0
4	1PE	A	2407	16/16	0.90	0.14	64,67,77,77	0
2	2YB	A	2401	37/37	0.91	0.10	35,38,79,87	0
3	OLC	A	2402	16/25	0.94	0.10	48,51,58,60	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.

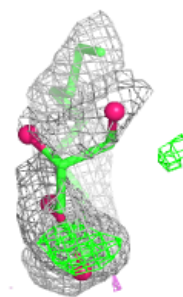
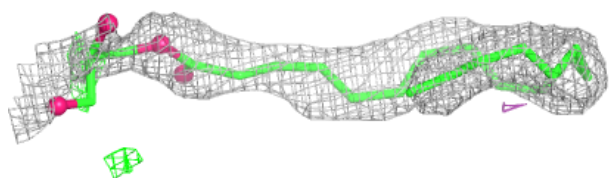
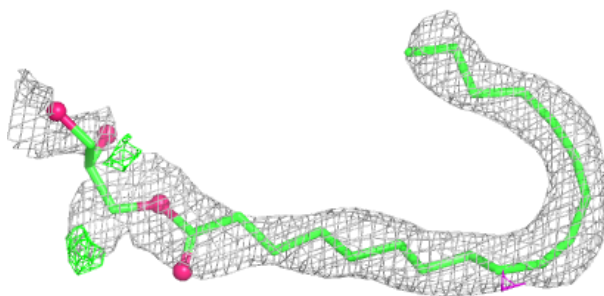


Electron density around OLC A 2405:

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

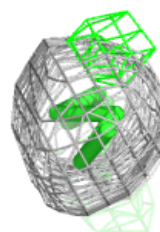
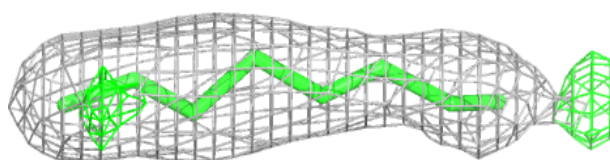
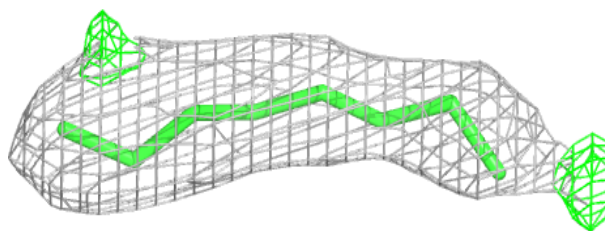
**Electron density around OLC A 2404:**

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

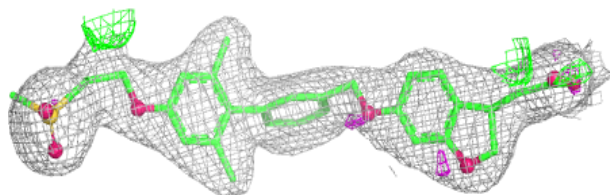
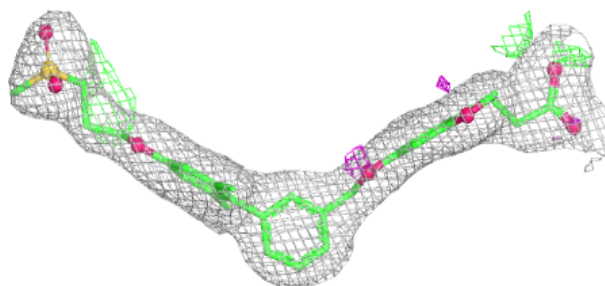


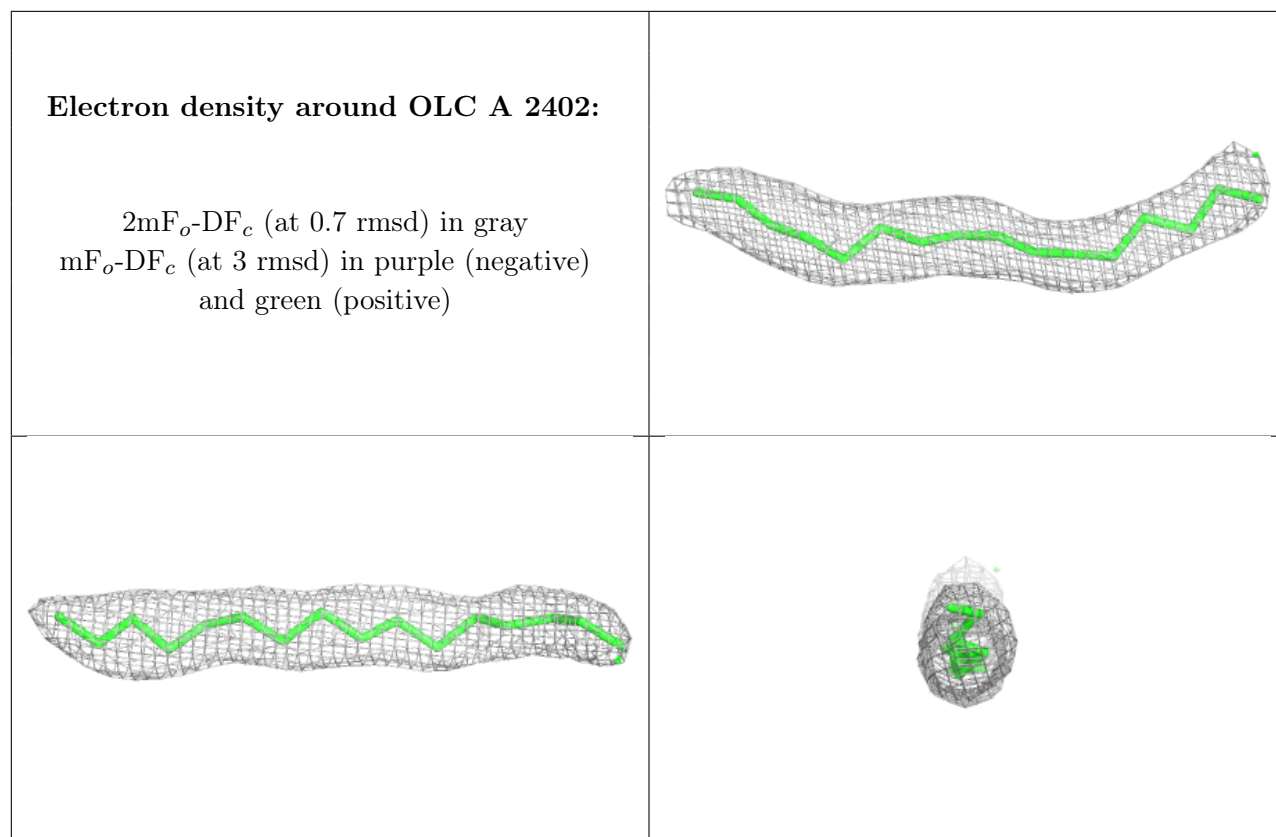
Electron density around OLC A 2403:

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

**Electron density around 2YB A 2401:**

$2mF_o-DF_c$ (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.