wwPDB X-ray Structure Validation Summary Report (i)

Jun 22, 2024 – 06:27 PM EDT

PDB ID	:	5LX9
Title	:	CRYSTAL STRUCTURE OF HUMAN ADIPONECTIN RECEPTOR 2 IN COMPLEX WITH A C18 FREE FATTY ACID AT 2.4 ANGSTROM RESOLUTION
Authors	:	Vasiliauskaite-Brooks, I.; Leyrat, C.; Hoh, F.; Granier, S.
Deposited on	:	2016-09-20
Resolution	:	2.40 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 types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) were used in the production of this report:

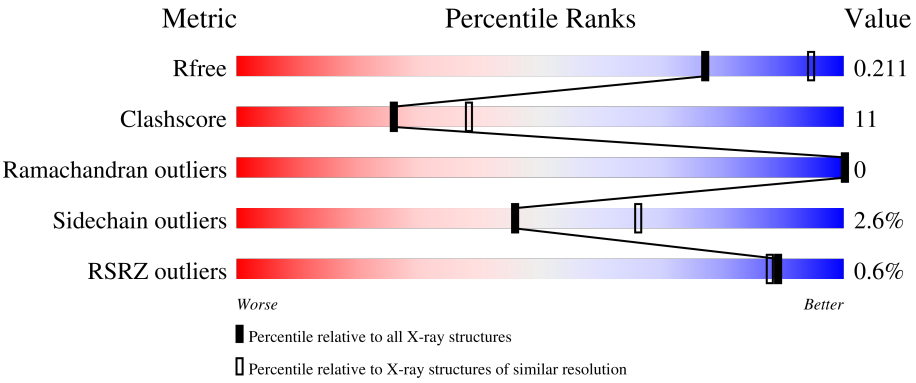
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.40 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	307	% 76% 15% • 8%
2	H	284	72% 7% • 20%

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
5	OLB	A	412	-	-	-	X
5	OLB	H	302	-	-	-	X

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 4885 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 HUMAN ADIPONECTIN RECEPTOR 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	283	2282	1533	371	361	17	0	0	0

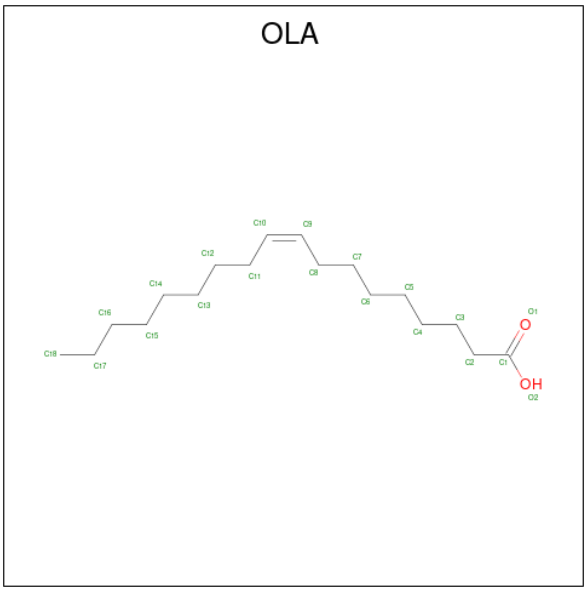
- Molecule 2 is a protein called single-chain variable fragment.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	228	1755	1113	288	347	7	0	0	0

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

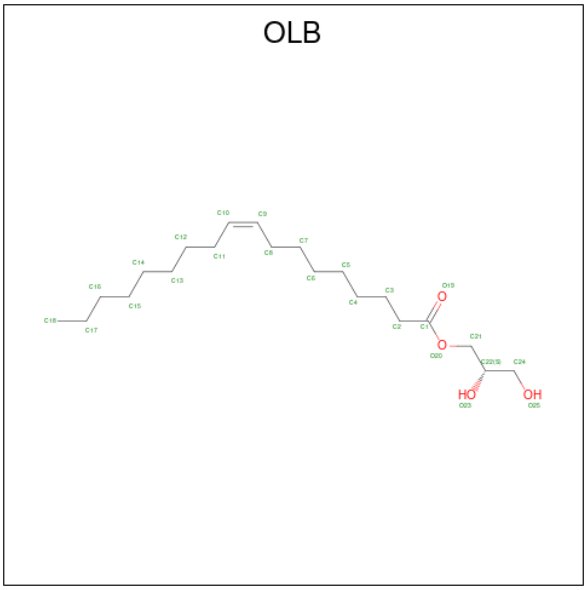
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
3	A	1	1	1	0	0

- Molecule 4 is OLEIC ACID (three-letter code: OLA) (formula: $C_{18}H_{34}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 20 18 2	0	0

- Molecule 5 is (2S)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLB) (formula: $C_{21}H_{40}O_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	11	0
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	9	0
5	A	1	Total C O 25 21 4	9	0
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	0	0
5	A	1	Total C O 25 21 4	9	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	H	1	Total C O 25 21 4	0	0
5	H	1	Total C O 25 21 4	0	0

- Molecule 6 is water.

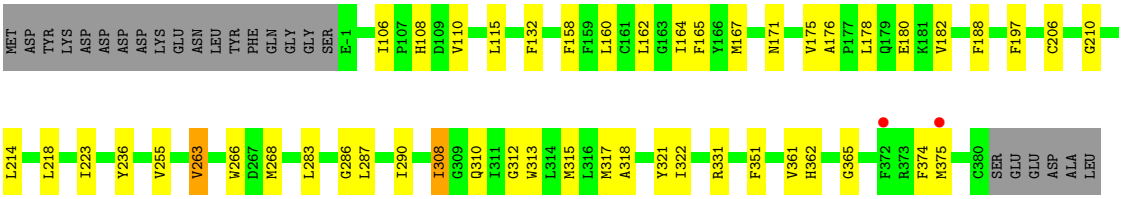
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	220	Total O 220 220	0	0
6	H	307	Total O 307 307	0	0

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.

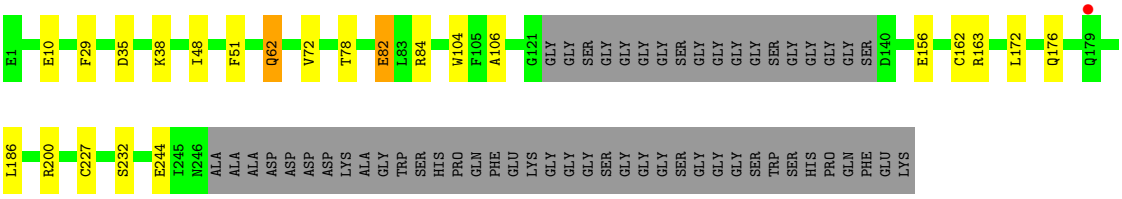
• Molecule 1: HUMAN ADIPONECTIN RECEPTOR 2

Chain A:



• Molecule 2: single-chain variable fragment

Chain H:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 2 21	Depositor
Cell constants a, b, c, α, β, γ	74.58Å 101.13Å 111.58Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	101.13 – 2.40 101.13 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.6 (101.13-2.40) 99.9 (101.13-2.40)	Depositor EDS
R_{merge}	0.53	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.44 (at 2.40Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.181 , 0.205 0.190 , 0.211	Depositor DCC
R_{free} test set	1626 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å^2)	34.6	Xtriage
Anisotropy	0.933	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 59.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	4885	wwPDB-VP
Average B, all atoms (Å^2)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.20% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: OLA, ZN, OLB

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	0.48	0/2366	0.62	1/3216 (0.0%)
2	H	0.46	0/1799	0.67	0/2441
All	All	0.48	0/4165	0.64	1/5657 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	308	ILE	N-CA-C	-5.50	96.17	111.00

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	2282	0	2260	48	0
2	H	1755	0	1677	14	0
3	A	1	0	0	0	0
4	A	20	0	33	6	0
5	A	250	0	400	39	4
5	H	50	0	80	18	1
6	A	220	0	0	5	0
6	H	307	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	4885	0	4450	90	4

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 11.

The worst 5 of 90 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)
5:A:403:OLB:H2	5:H:302:OLB:H20	1.29	1.12
5:A:405:OLB:O19	5:A:412:OLB:H3A	1.70	0.92
5:A:405:OLB:O19	5:A:412:OLB:C3	2.19	0.91
5:A:403:OLB:C2	5:H:302:OLB:H20	2.00	0.90
1:A:165:PHE:HB3	5:A:407:OLB:H20	1.56	0.87

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:405:OLB:O23	5:A:406:OLB:O25[3_454]	1.97	0.23
5:A:403:OLB:C17	5:A:408:OLB:C18[3_554]	2.02	0.18
5:A:405:OLB:O23	5:A:406:OLB:C24[3_454]	2.10	0.10
5:A:408:OLB:C17	5:H:301:OLB:C18[3_454]	2.11	0.09

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	281/307 (92%)	279 (99%)	2 (1%)	0	100	100
2	H	224/284 (79%)	220 (98%)	4 (2%)	0	100	100
All	All	505/591 (85%)	499 (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	240/261 (92%)	236 (98%)	4 (2%)	60	78
2	H	189/217 (87%)	182 (96%)	7 (4%)	34	53
All	All	429/478 (90%)	418 (97%)	11 (3%)	46	66

5 of 11 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	H	82	GLU
2	H	163	ARG
2	H	232	SER
2	H	172	LEU
2	H	10	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	171	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 1 is monoatomic - leaving 13 for Mogul analysis.

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	$\#\|Z\| > 2$
5	OLB	A	411	-	24,24,24	0.21	0	25,25,25	0.31	0
5	OLB	A	410	-	24,24,24	0.17	0	25,25,25	0.31	0
5	OLB	A	403	-	24,24,24	0.27	0	25,25,25	0.48	0
5	OLB	A	409	-	24,24,24	0.19	0	25,25,25	0.30	0
4	OLA	A	402	-	19,19,19	0.28	0	19,19,19	0.42	0
5	OLB	A	407	-	24,24,24	0.14	0	25,25,25	0.22	0
5	OLB	H	301	-	24,24,24	0.27	0	25,25,25	0.40	0
5	OLB	H	302	-	24,24,24	0.29	0	25,25,25	0.30	0
5	OLB	A	406	-	24,24,24	0.26	0	25,25,25	0.57	0
5	OLB	A	412	-	24,24,24	0.23	0	25,25,25	0.38	0
5	OLB	A	405	-	24,24,24	0.43	0	25,25,25	0.64	1 (4%)
5	OLB	A	404	-	24,24,24	0.33	0	25,25,25	0.46	0
5	OLB	A	408	-	24,24,24	0.31	0	25,25,25	0.32	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
5	OLB	A	411	-	-	8/24/24/24	-
5	OLB	A	410	-	-	13/24/24/24	-
5	OLB	A	403	-	-	18/24/24/24	-
5	OLB	A	409	-	-	8/24/24/24	-
4	OLA	A	402	-	-	8/17/17/17	-
5	OLB	A	407	-	-	12/24/24/24	-
5	OLB	H	301	-	-	12/24/24/24	-
5	OLB	H	302	-	-	8/24/24/24	-
5	OLB	A	406	-	-	9/24/24/24	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	OLB	A	412	-	-	15/24/24/24	-
5	OLB	A	405	-	-	12/24/24/24	-
5	OLB	A	404	-	-	15/24/24/24	-
5	OLB	A	408	-	-	7/24/24/24	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A	405	OLB	O20-C21-C22	-2.25	94.92	105.77

There are no chirality outliers.

5 of 145 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	403	OLB	O19-C1-O20-C21
5	A	403	OLB	O20-C21-C22-C24
5	A	403	OLB	C21-C22-C24-O25
5	A	404	OLB	C21-C22-C24-O25
5	A	405	OLB	O20-C21-C22-C24

There are no ring outliers.

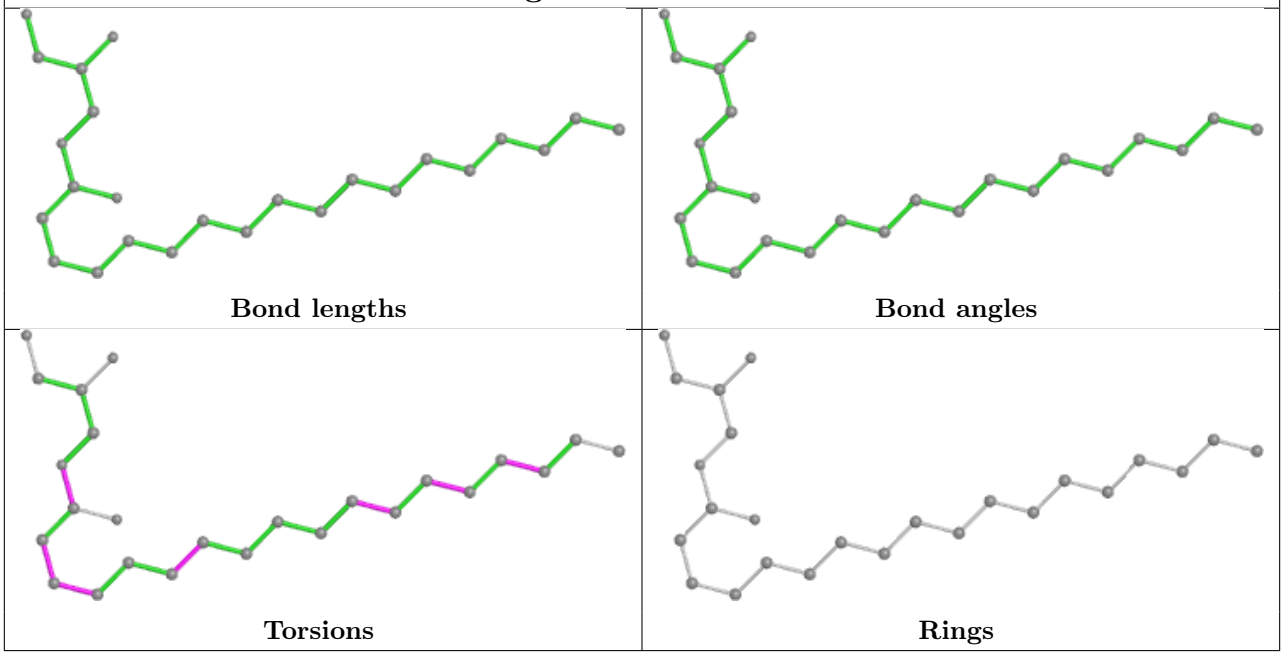
13 monomers are involved in 58 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	411	OLB	3	0
5	A	410	OLB	2	0
5	A	403	OLB	13	1
5	A	409	OLB	1	0
4	A	402	OLA	6	0
5	A	407	OLB	6	0
5	H	301	OLB	8	1
5	H	302	OLB	15	0
5	A	406	OLB	0	2
5	A	412	OLB	7	0
5	A	405	OLB	6	2
5	A	404	OLB	7	0
5	A	408	OLB	0	2

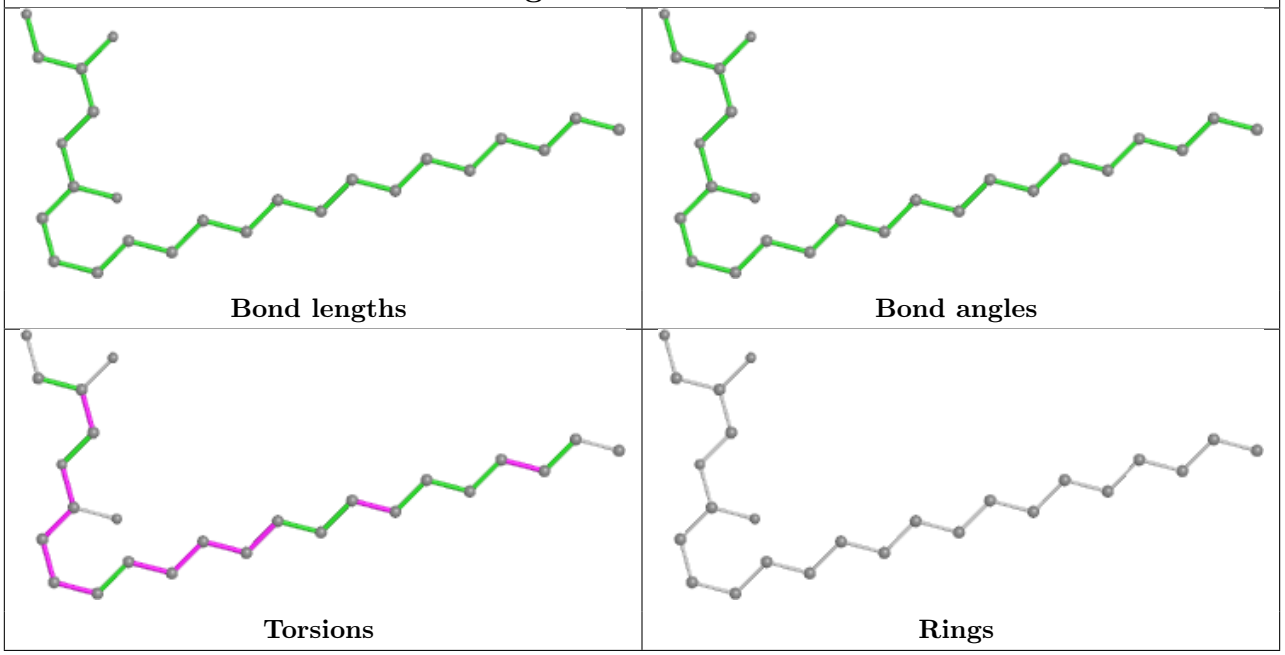
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,

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

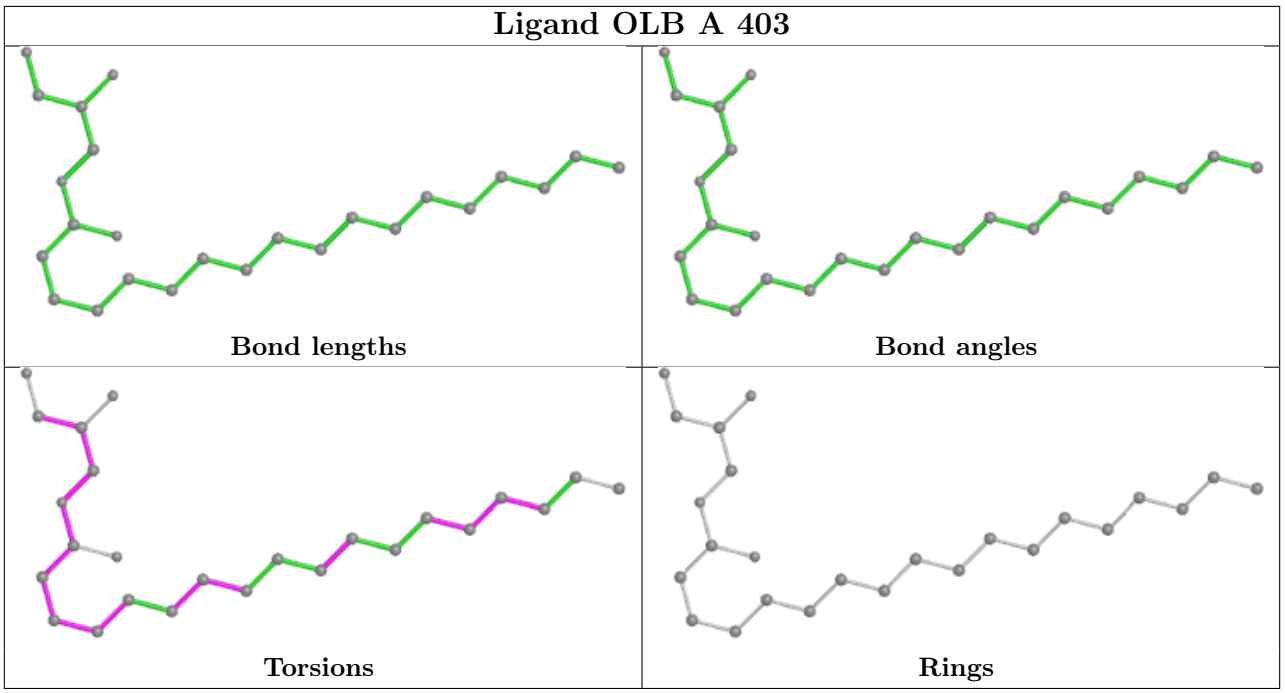
Ligand OLB A 411



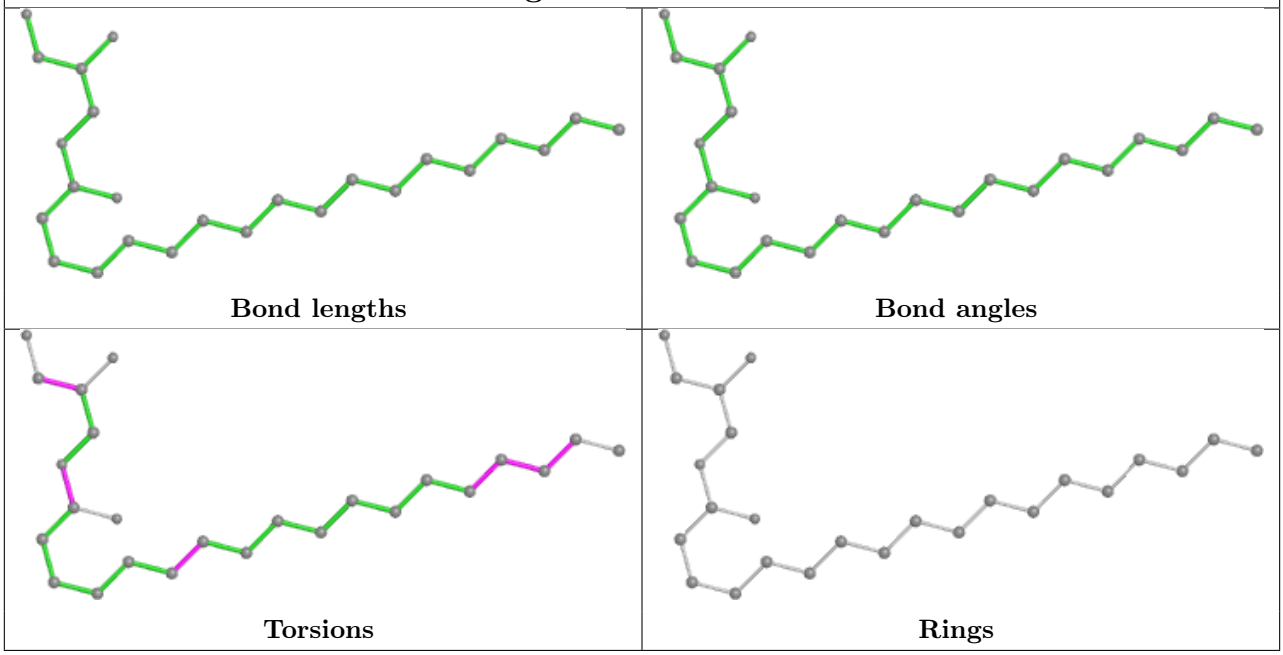
Ligand OLB A 410



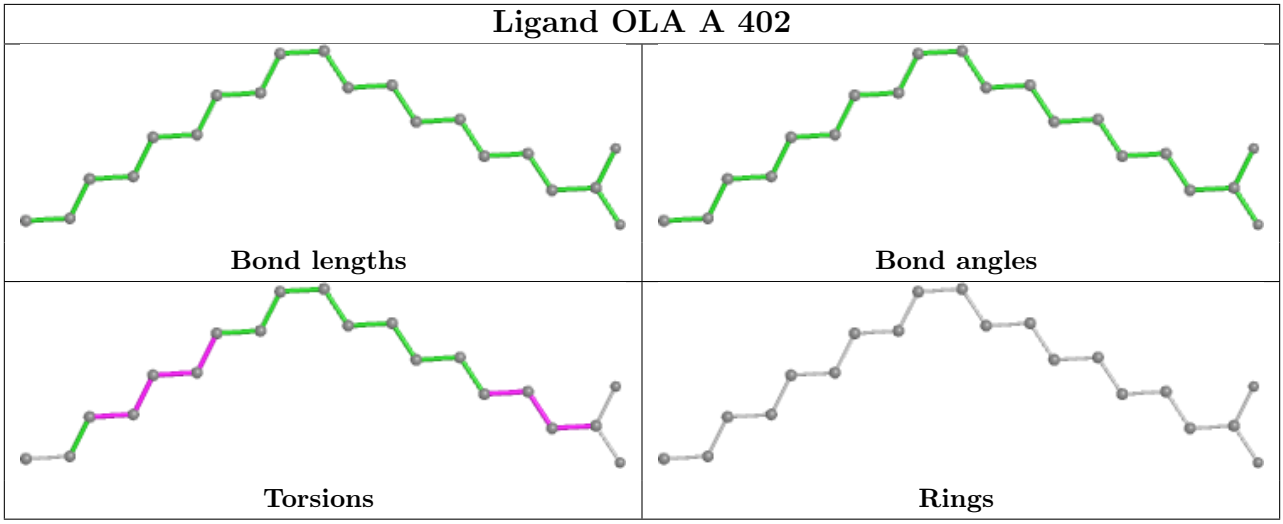
Ligand OLB A 403



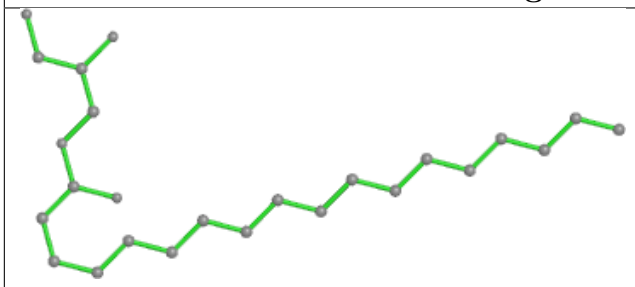
Ligand OLB A 409



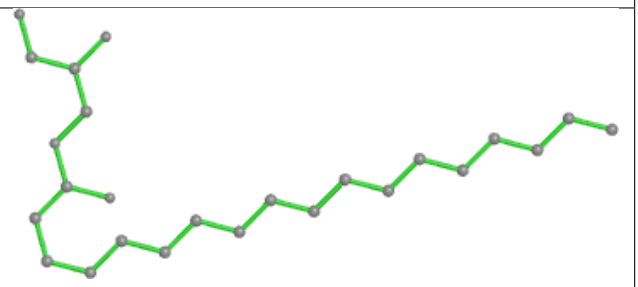
Ligand OLA A 402



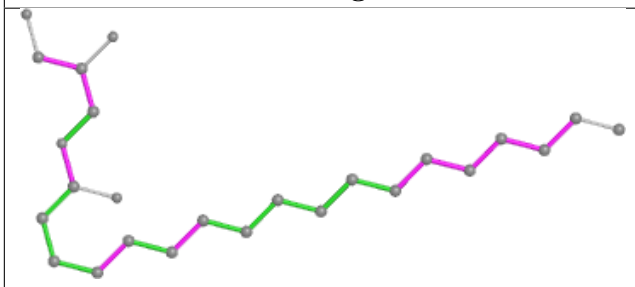
Ligand OLB A 407



Bond lengths



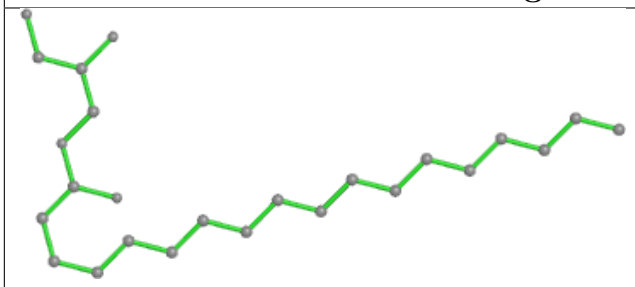
Bond angles



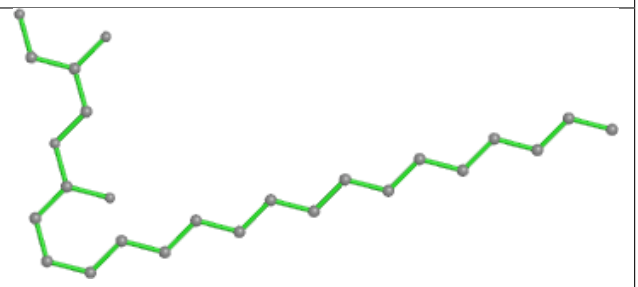
Torsions

Rings

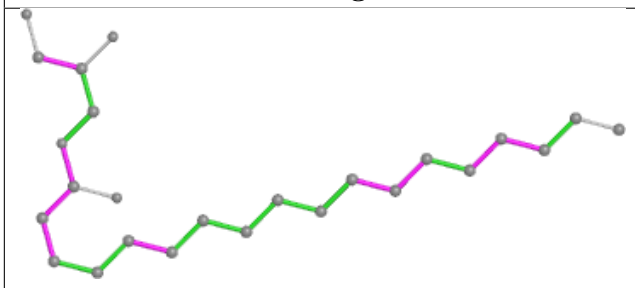
Ligand OLB H 301



Bond lengths



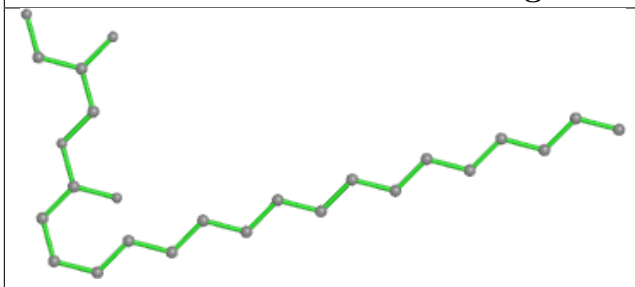
Bond angles



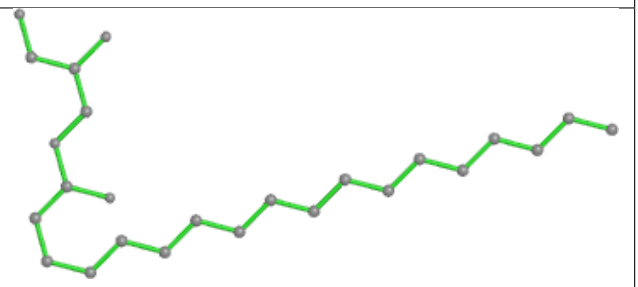
Torsions

Rings

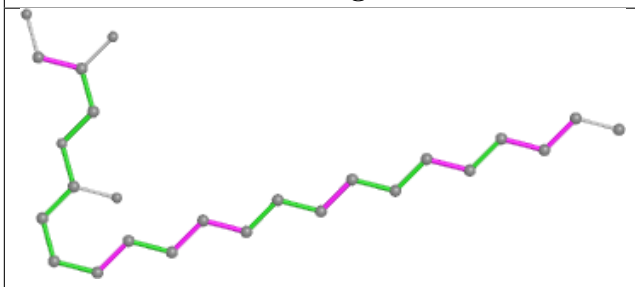
Ligand OLB H 302



Bond lengths



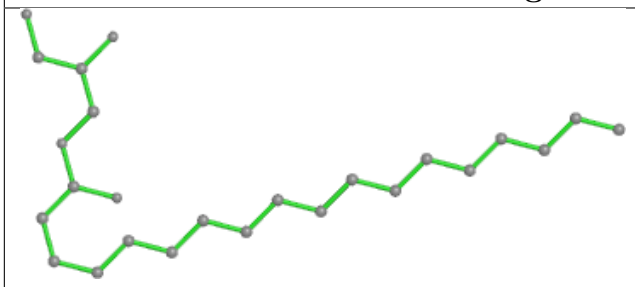
Bond angles



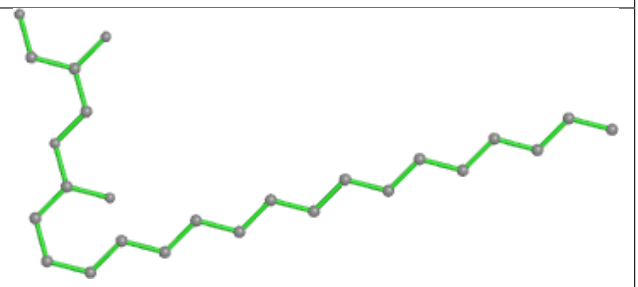
Torsions

Rings

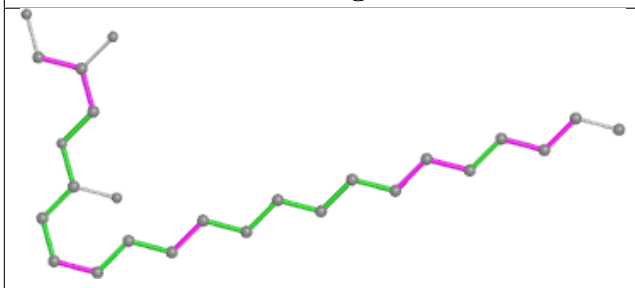
Ligand OLB A 406



Bond lengths



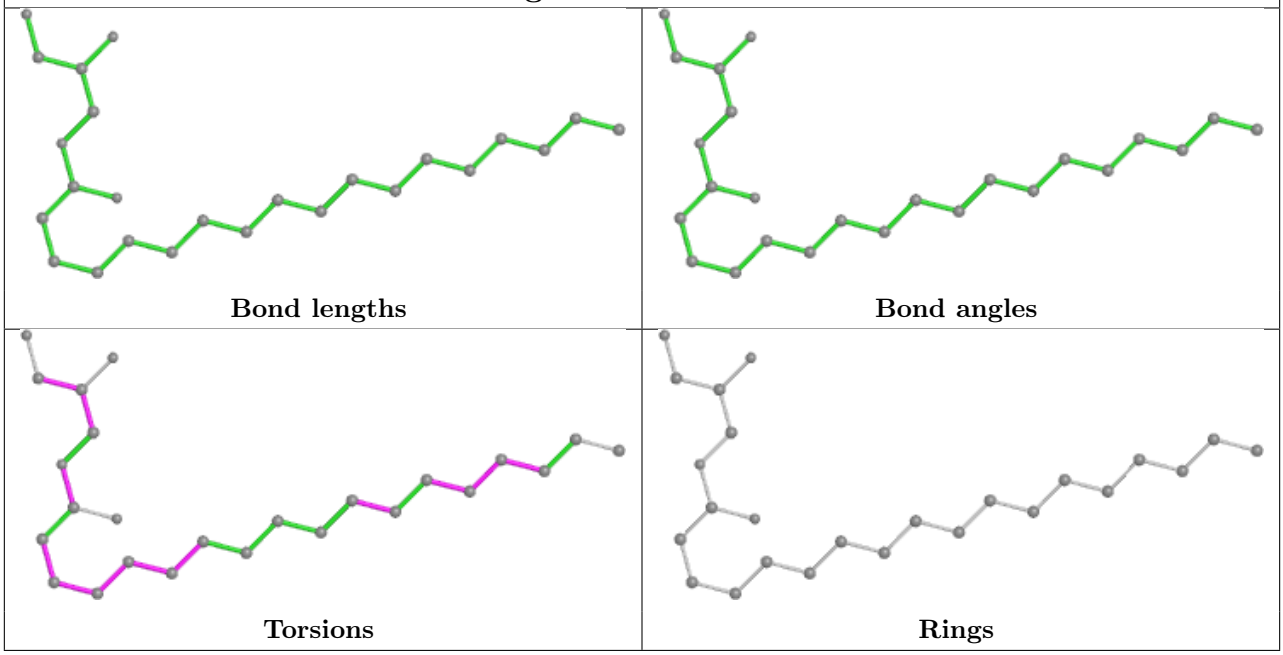
Bond angles



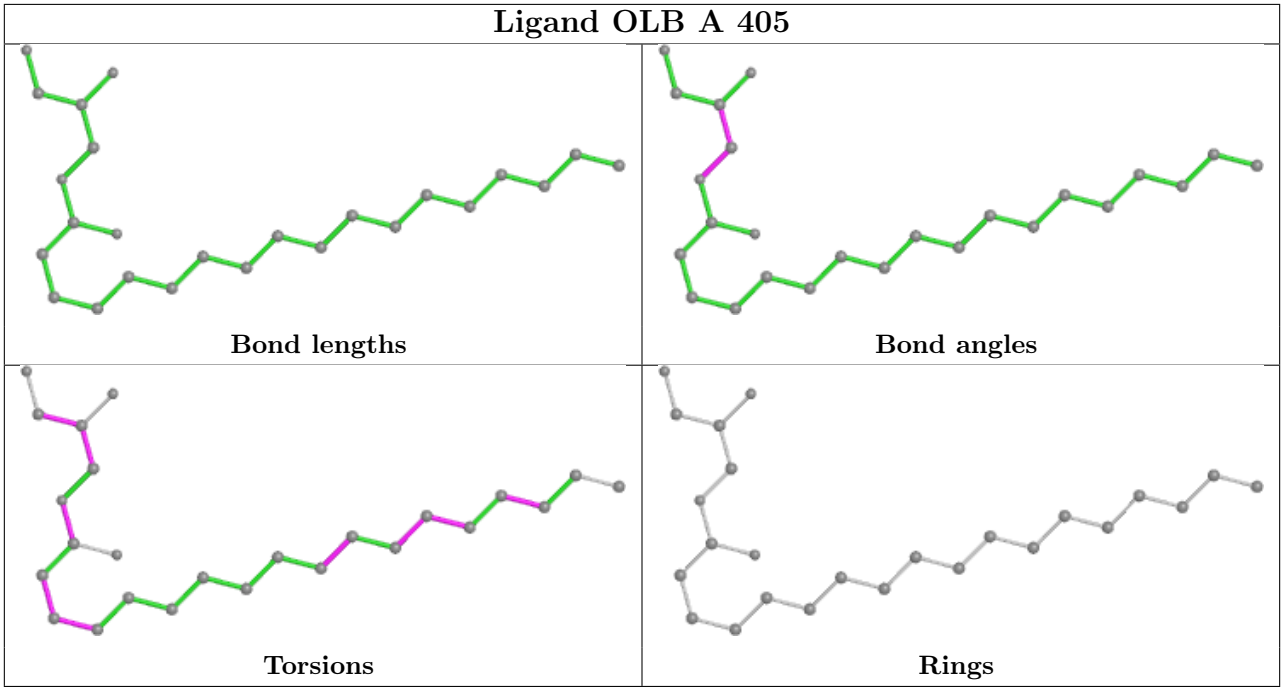
Torsions

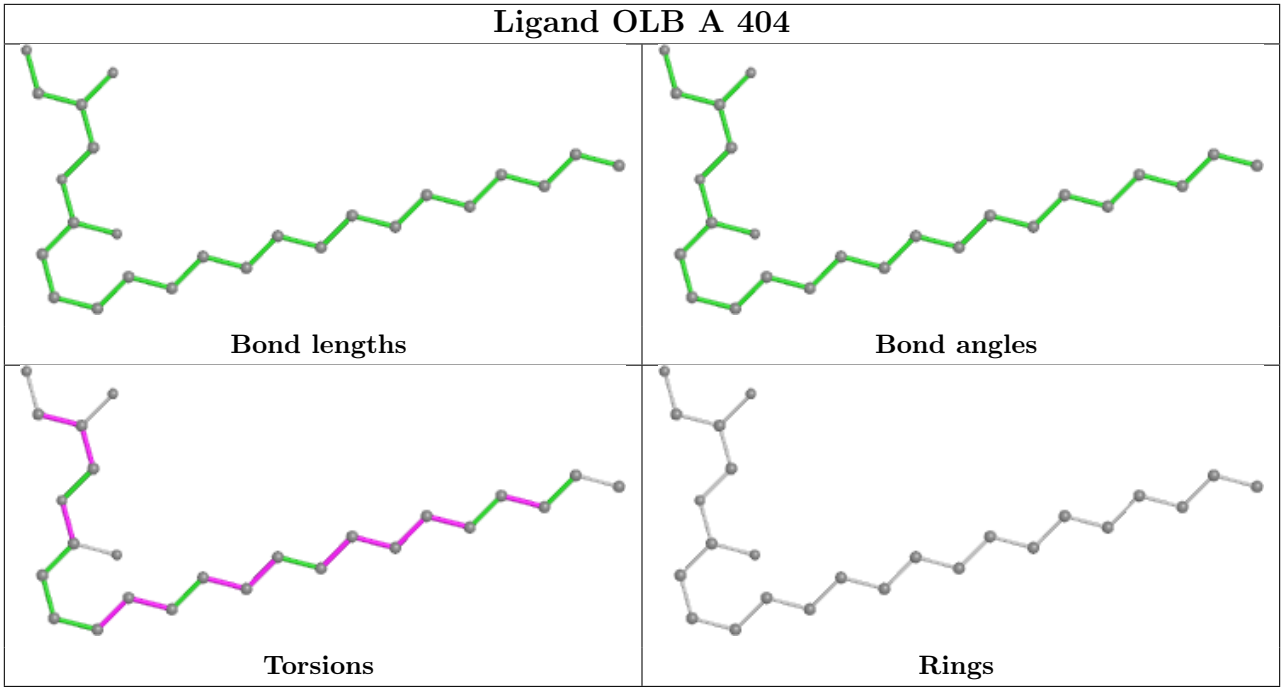
Rings

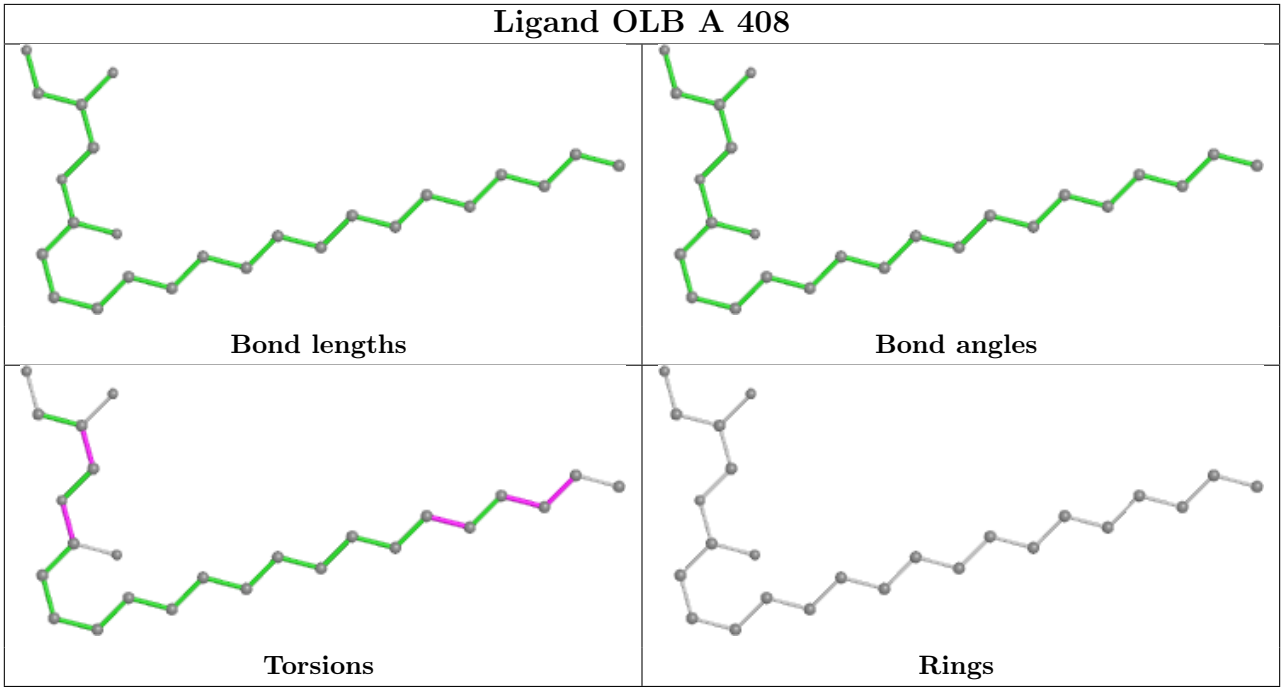
Ligand OLB A 412



Ligand OLB A 405







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, 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	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	283/307 (92%)	-0.26	2 (0%)	87	86	29, 46, 77, 116	2 (0%)
2	H	228/284 (80%)	-0.49	1 (0%)	92	91	23, 41, 65, 83	0
All	All	511/591 (86%)	-0.36	3 (0%)	89	88	23, 44, 73, 116	2 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	179	GLN	3.3
1	A	375	MET	2.4
1	A	372	PHE	2.1

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands

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	B-factors(Å^2)	Q<0.9
5	OLB	A	405	25/25	0.63	0.30	77,86,126,128	0
5	OLB	A	406	25/25	0.65	0.25	61,76,89,95	0

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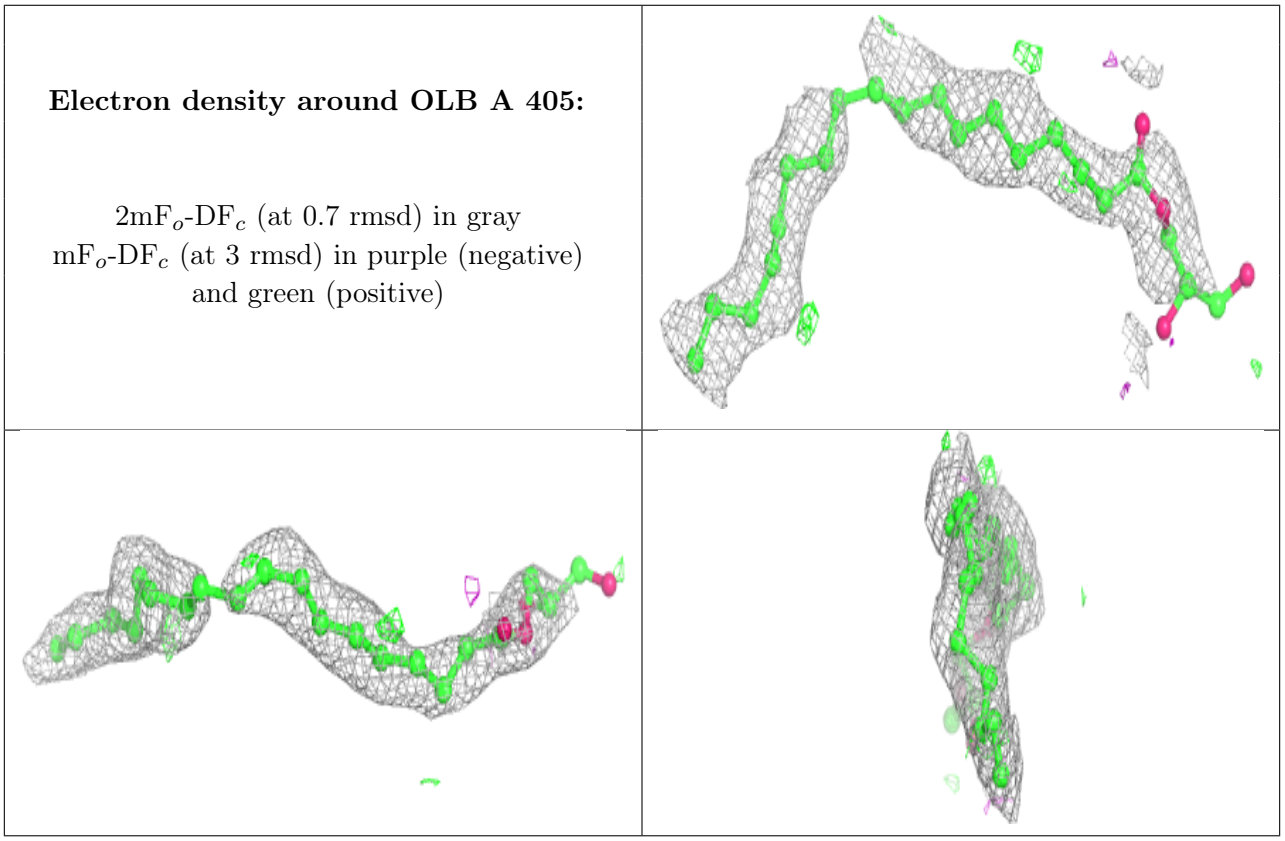
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	OLB	A	412	25/25	0.67	0.42	59,63,66,69	9
5	OLB	A	410	25/25	0.69	0.21	60,81,104,104	0
5	OLB	A	411	25/25	0.71	0.21	60,82,122,123	0
5	OLB	H	302	25/25	0.72	0.42	63,86,128,130	0
5	OLB	A	407	25/25	0.73	0.24	66,94,108,109	0
5	OLB	A	403	25/25	0.78	0.27	64,78,104,104	0
5	OLB	H	301	25/25	0.83	0.25	55,65,75,76	0
5	OLB	A	408	25/25	0.83	0.24	67,76,85,87	9
5	OLB	A	404	25/25	0.85	0.16	48,63,74,76	11
4	OLA	A	402	20/20	0.88	0.16	40,46,53,56	0
5	OLB	A	409	25/25	0.92	0.17	60,67,70,71	9
3	ZN	A	401	1/1	0.99	0.15	35,35,35,35	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.

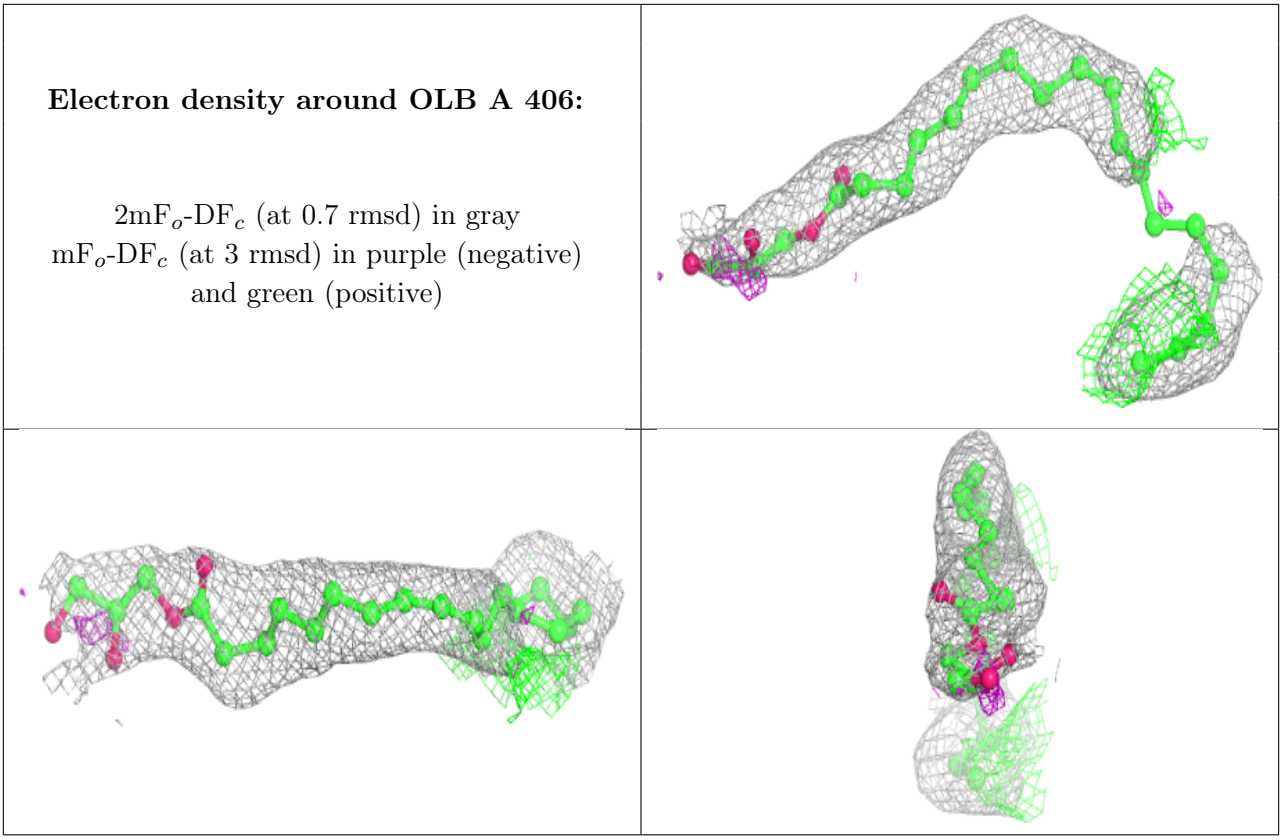
Electron density around OLB A 405:

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



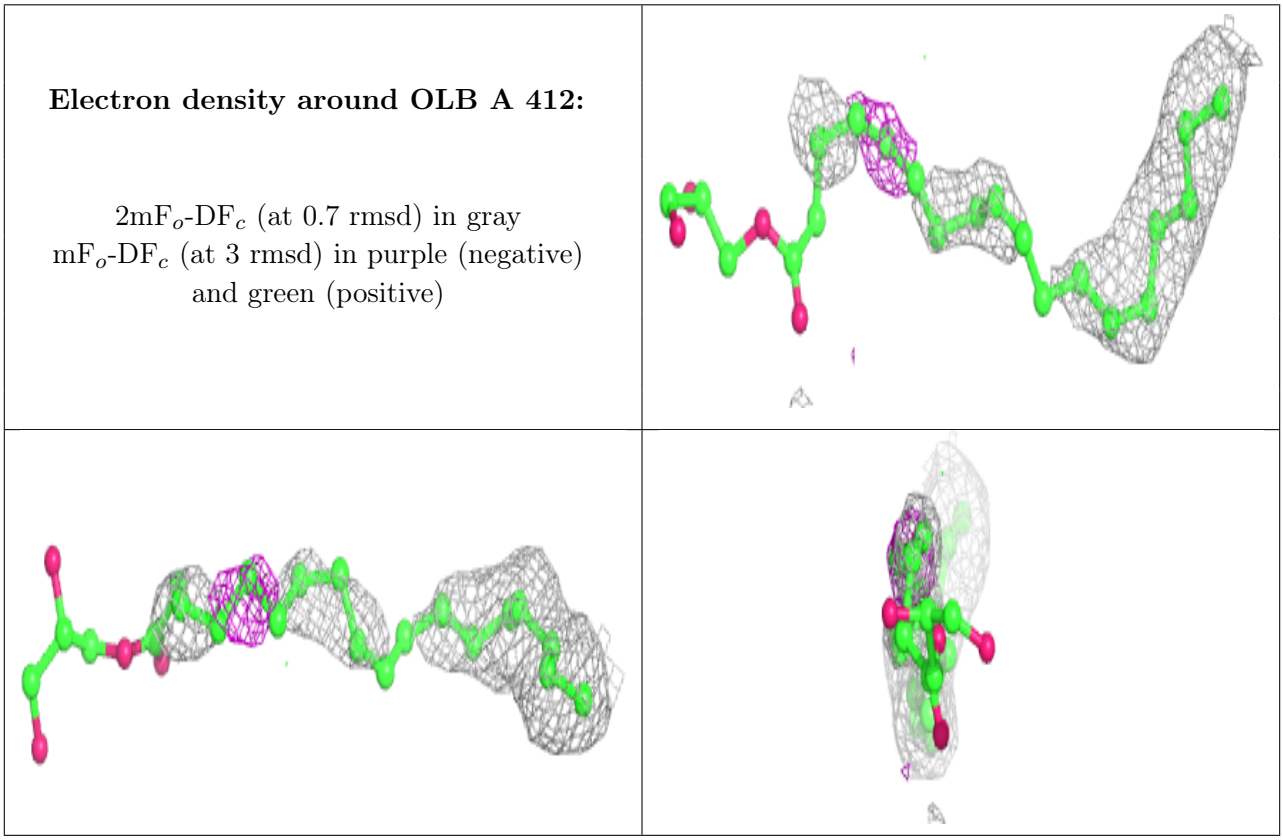
Electron density around OLB A 406:

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



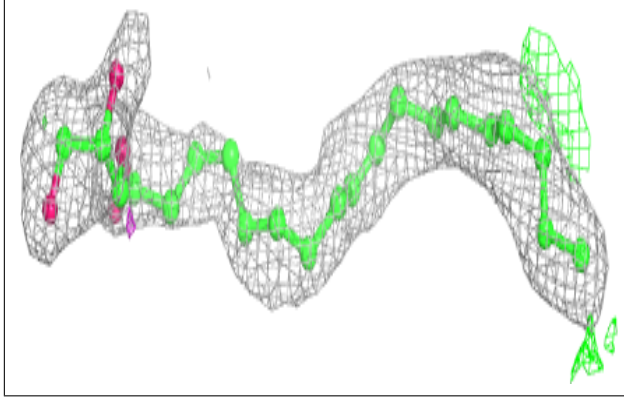
Electron density around OLB A 412:

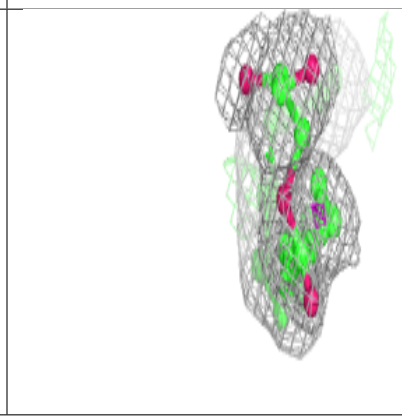
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around OLB A 410:

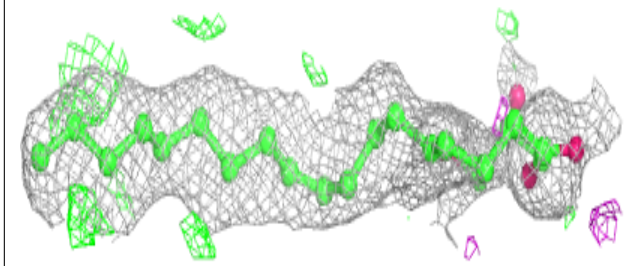
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

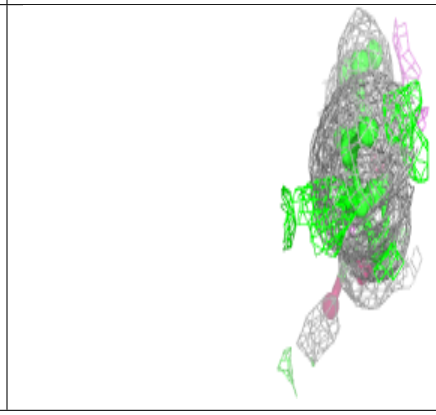




Electron density around OLB A 411:

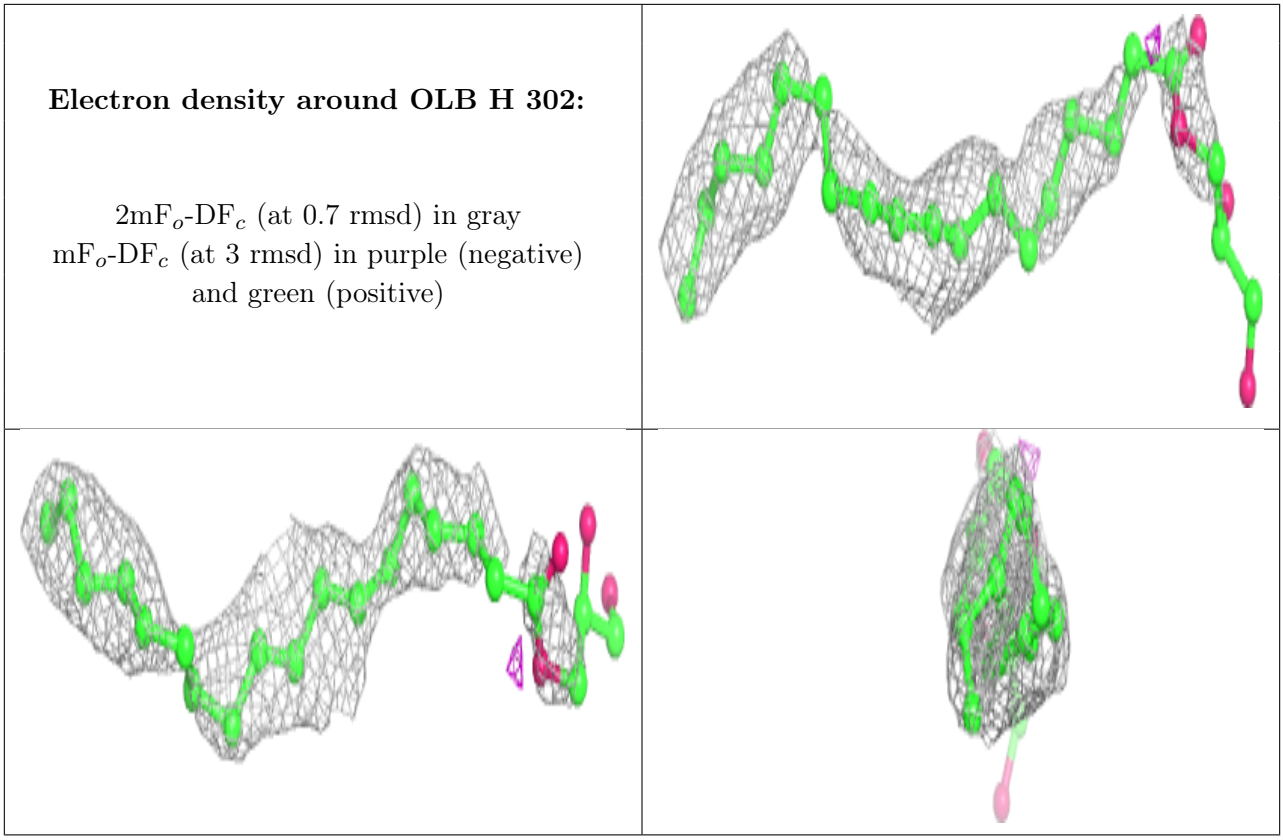
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





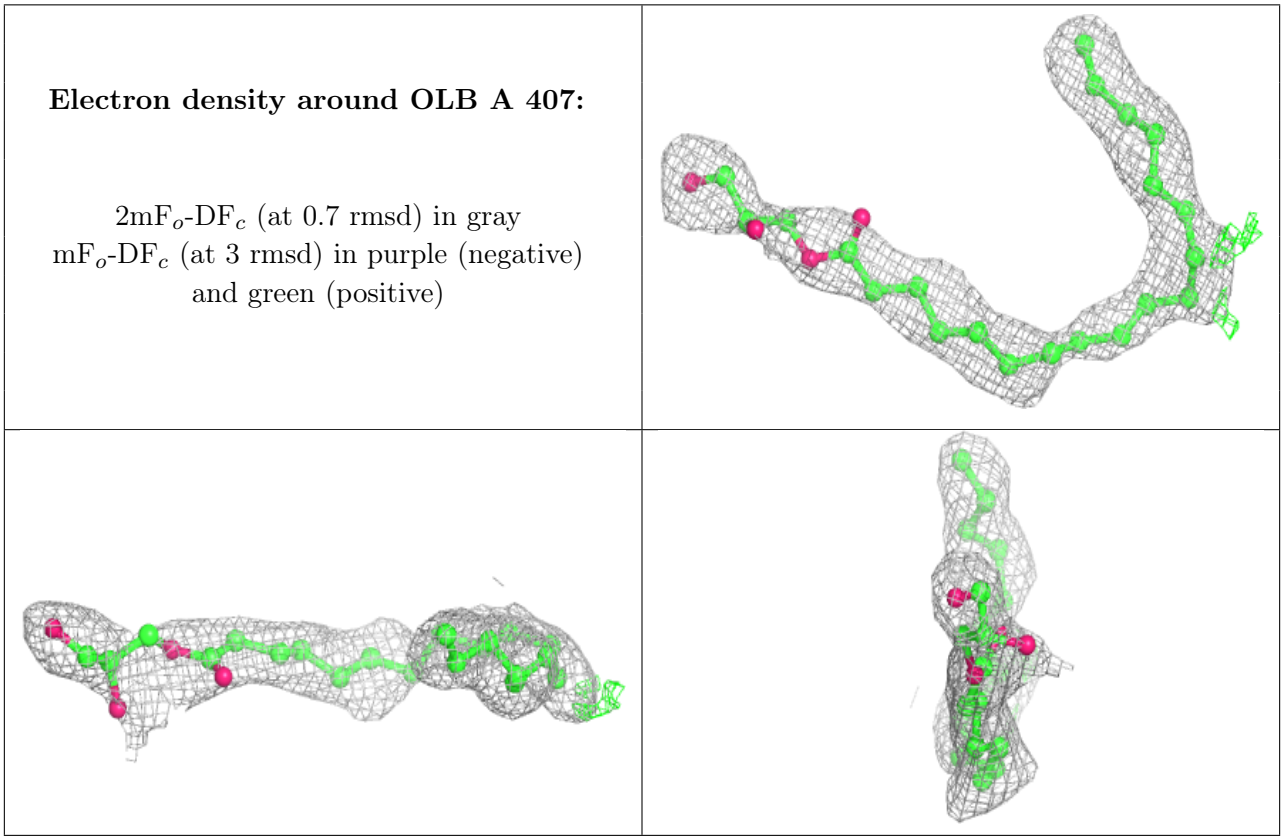
Electron density around OLB H 302:

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



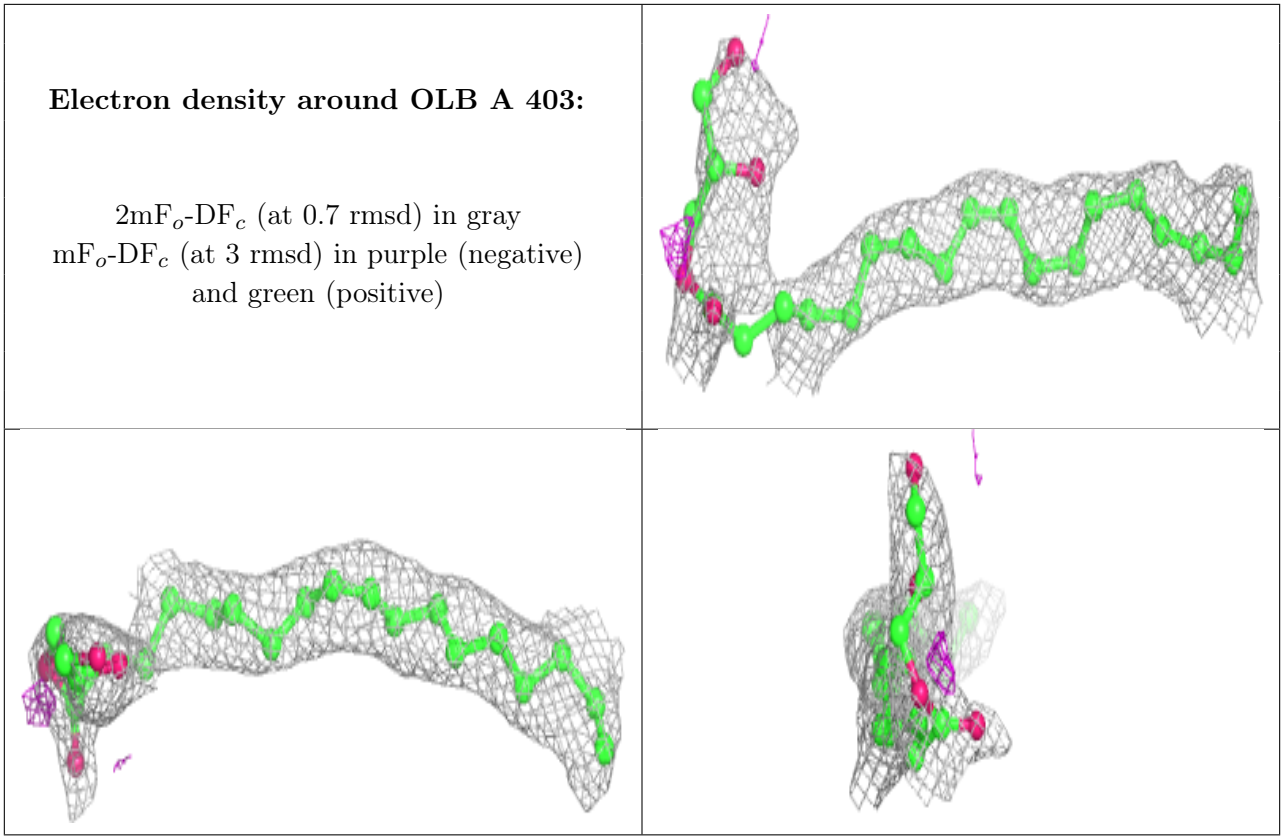
Electron density around OLB A 407:

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



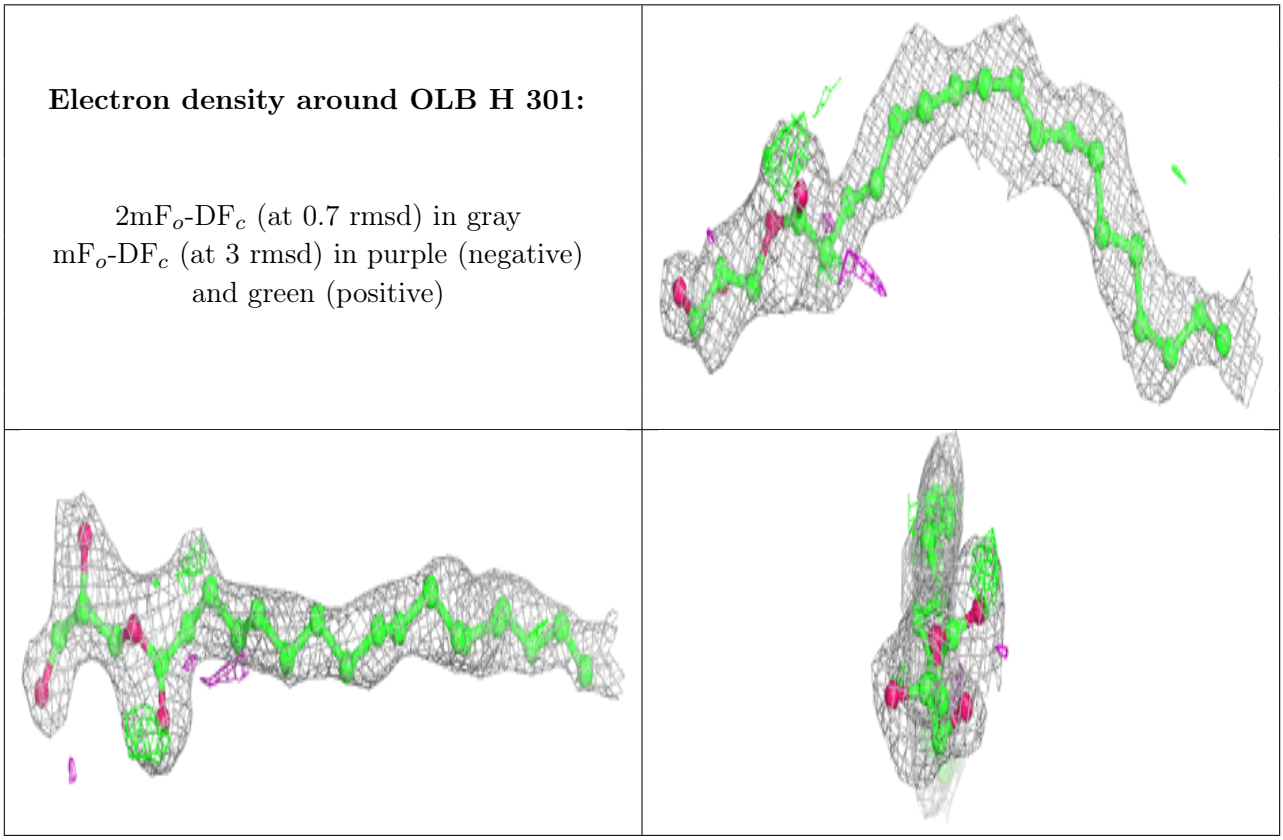
Electron density around OLB A 403:

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



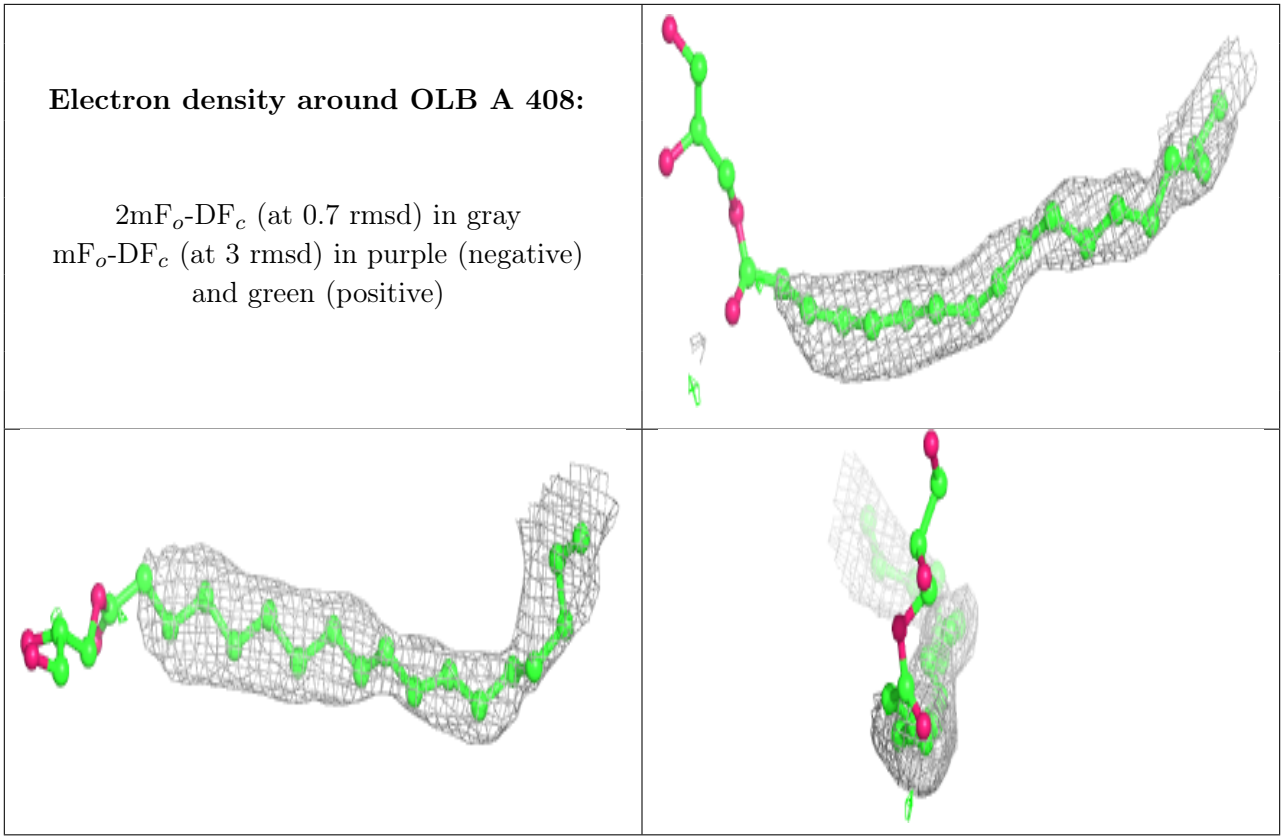
Electron density around OLB H 301:

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



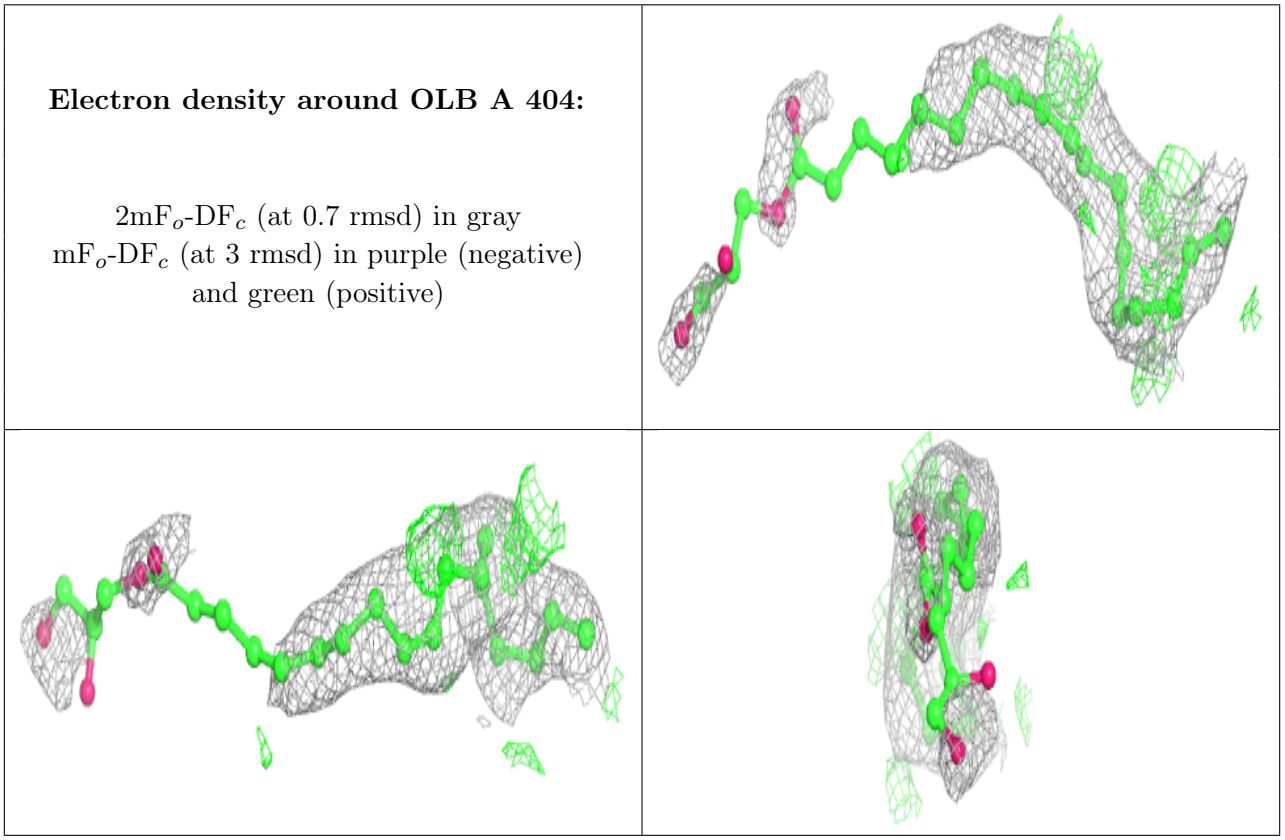
Electron density around OLB A 408:

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



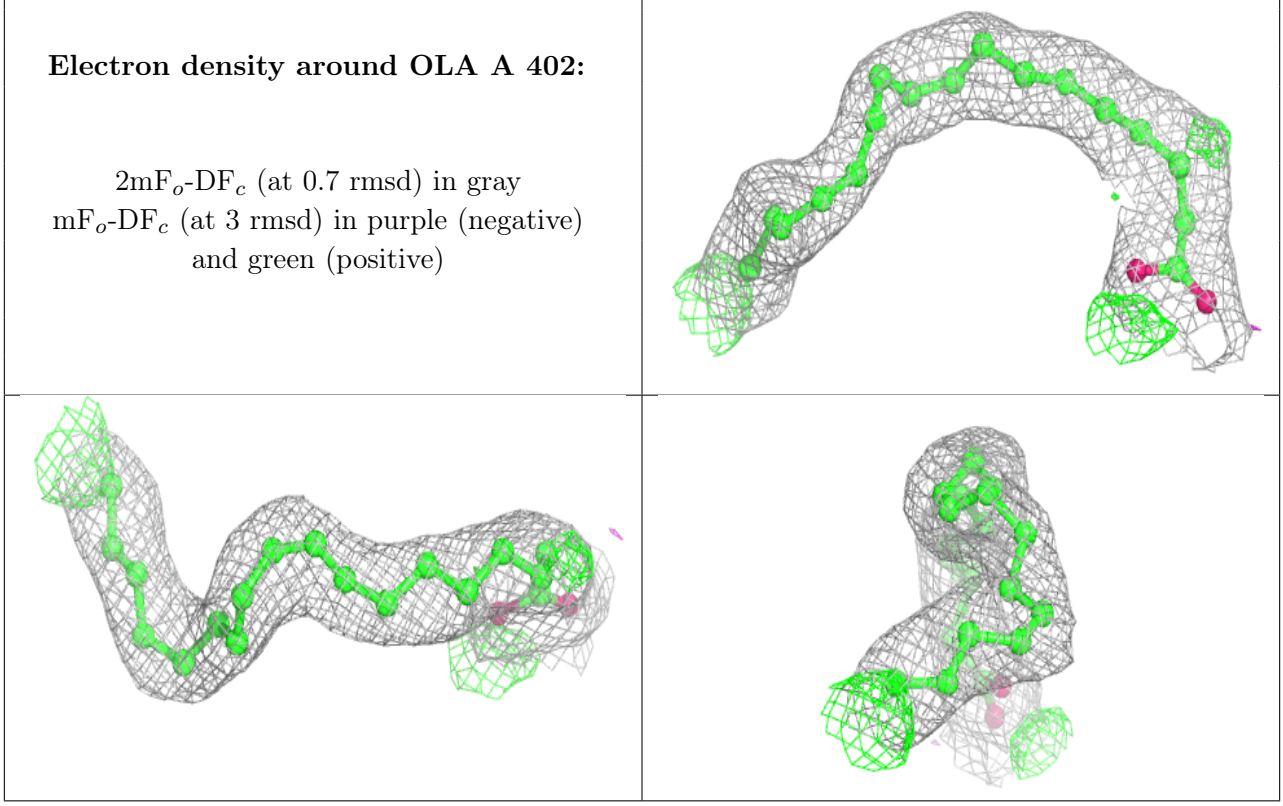
Electron density around OLB A 404:

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



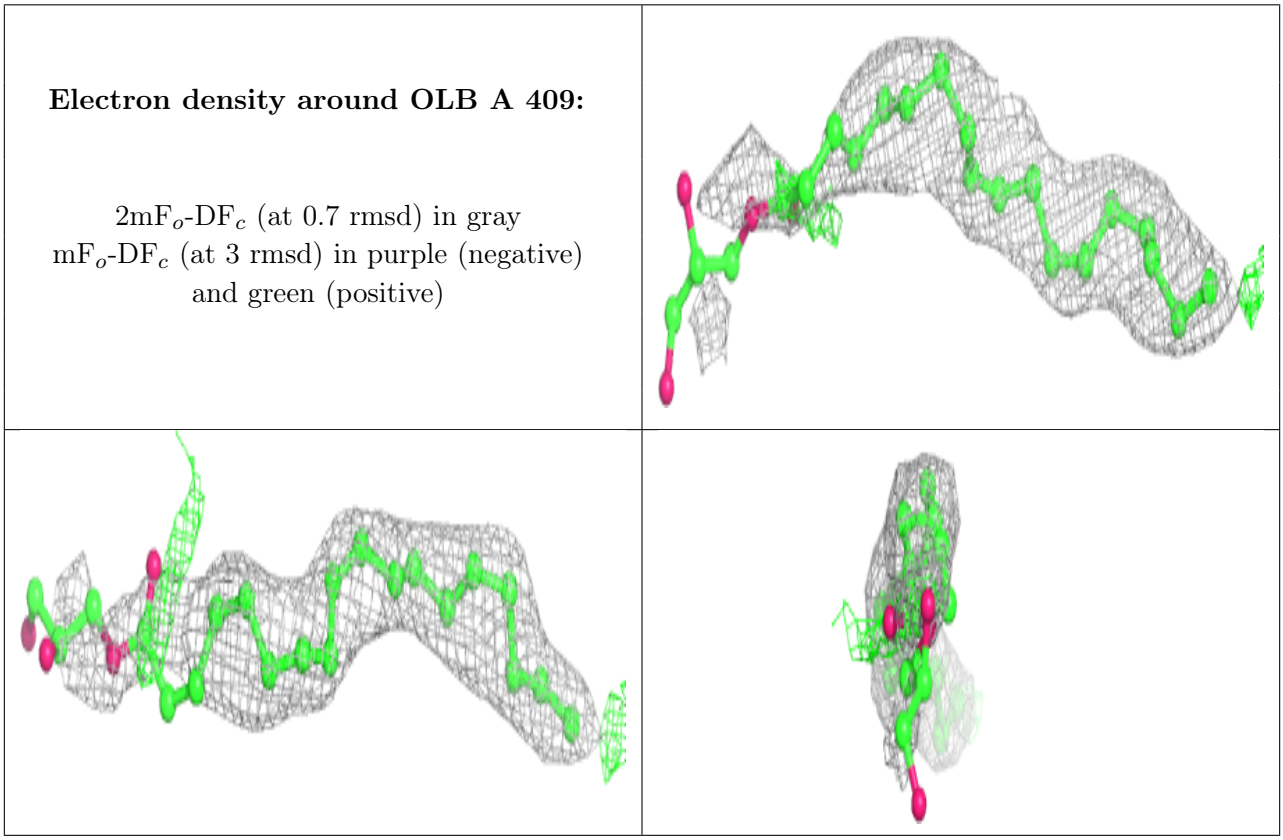
Electron density around OLA A 402:

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



Electron density around OLB A 409:

$2mF_o$-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.