wwPDB X-ray Structure Validation Summary Report (i)

Apr 29, 2024 – 06:12 PM JST

PDB ID	:	8JT8
Title	:	Crystal structure of 5-HT2AR in complex with (R)-IHCH-7179
Authors	:	Chen, Z.; Fan, L.; Wang, S.
Deposited on	:	2023-06-21
Resolution	:	2.70 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:

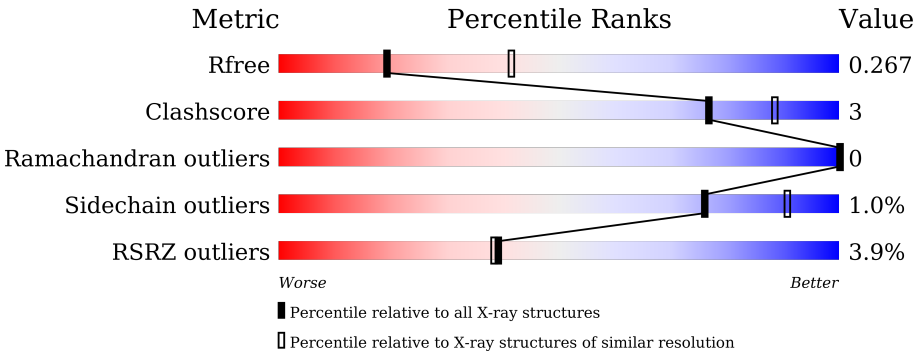
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & 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 2.70 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	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	376	4% 86% 8% 6%

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
4	OLC	A	1207	-	-	-	X

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2930 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 5-hydroxytryptamine receptor 2A,Soluble cytochrome b562.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	355	Total	C	N	O	S	0	0	0
			2720	1786	430	486	18			

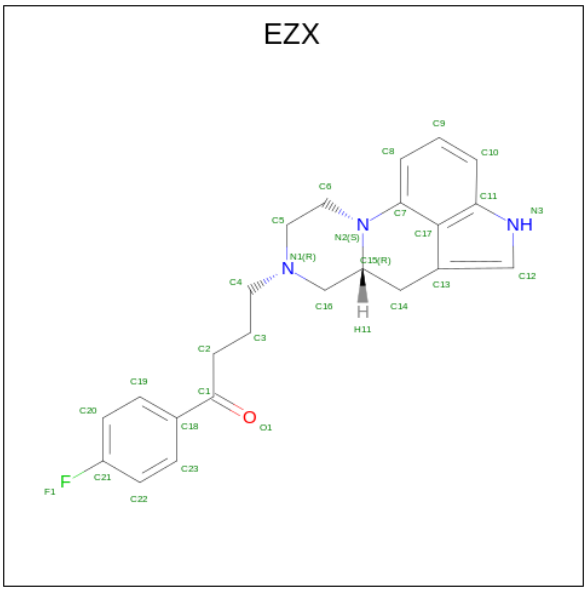
There are 15 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	67	GLY	-	expression tag	UNP P28223
A	68	GLY	-	expression tag	UNP P28223
A	69	THR	-	expression tag	UNP P28223
A	162	LYS	SER	engineered mutation	UNP P28223
A	164	TRP	MET	engineered mutation	UNP P28223
A	1007	TRP	MET	engineered mutation	UNP P0ABE7
A	1061	GLY	-	linker	UNP P0ABE7
A	1062	SER	-	linker	UNP P0ABE7
A	1063	GLY	-	linker	UNP P0ABE7
A	1064	SER	-	linker	UNP P0ABE7
A	1065	GLY	-	linker	UNP P0ABE7
A	1098	ILE	ARG	engineered mutation	UNP P0ABE7
A	1102	ILE	HIS	engineered mutation	UNP P0ABE7
A	1106	GLY	ARG	engineered mutation	UNP P0ABE7
A	372	ASN	SER	engineered mutation	UNP P28223

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

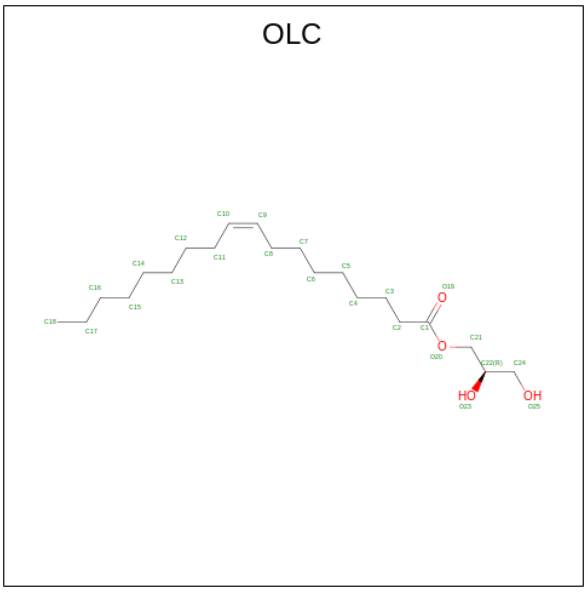
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is 1-(4-fluorophenyl)-4-[(7R)-2,5,11-triazatetracyclo[7.6.1.0^2,7.0^12,16]hexadeca-1(15),9,12(16),13-tetraen-5-yl]butan-1-one (three-letter code: EZX) (formula: $C_{23}H_{24}FN_3O$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C F N O 28 23 1 3 1	0	0

- Molecule 4 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
4	A	1	Total C O 16 12 4	0	0
4	A	1	Total C O 16 12 4	0	0

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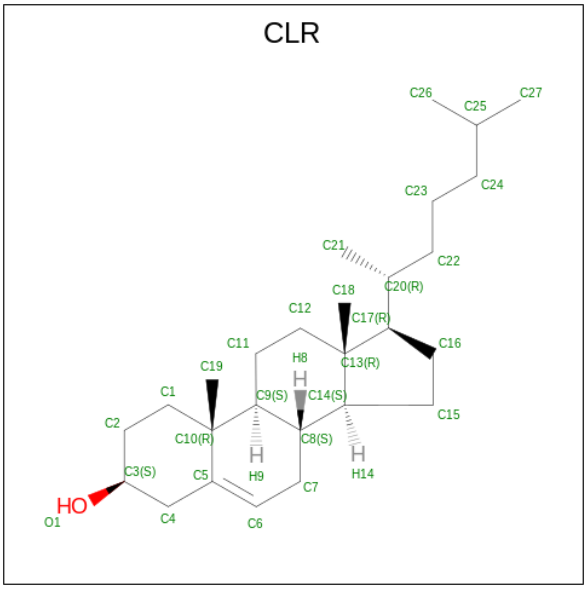
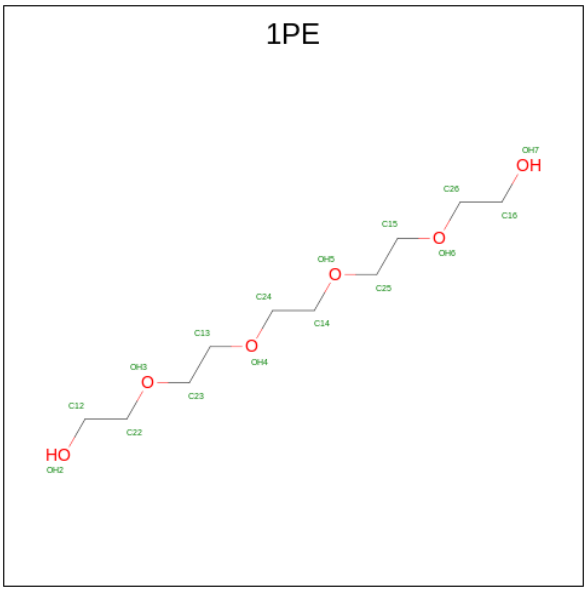
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 16 12 4	0	0
4	A	1	Total C O 13 9 4	0	0
4	A	1	Total C O 14 10 4	0	0
4	A	1	Total C O 16 12 4	0	0
4	A	1	Total C O 16 12 4	0	0

- Molecule 5 is CHOLESTEROL (three-letter code: CLR) (formula: $C_{27}H_{46}O$).



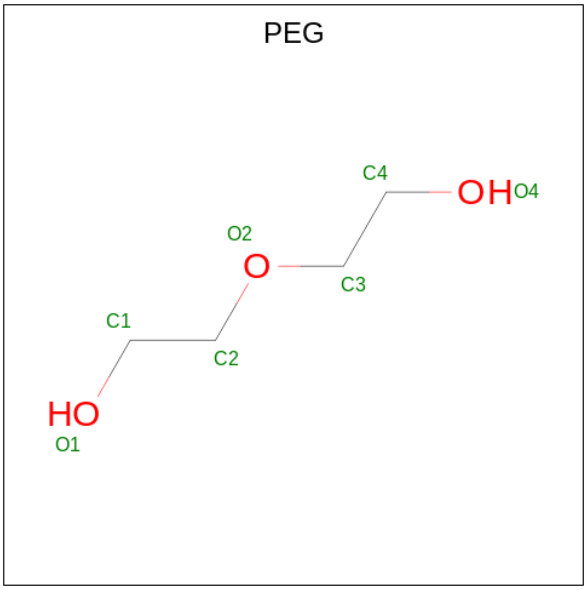
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 24 23 1	0	0
5	A	1	Total C O 20 19 1	0	0

- Molecule 6 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula: $C_{10}H_{22}O_6$).



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

- Molecule 7 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).

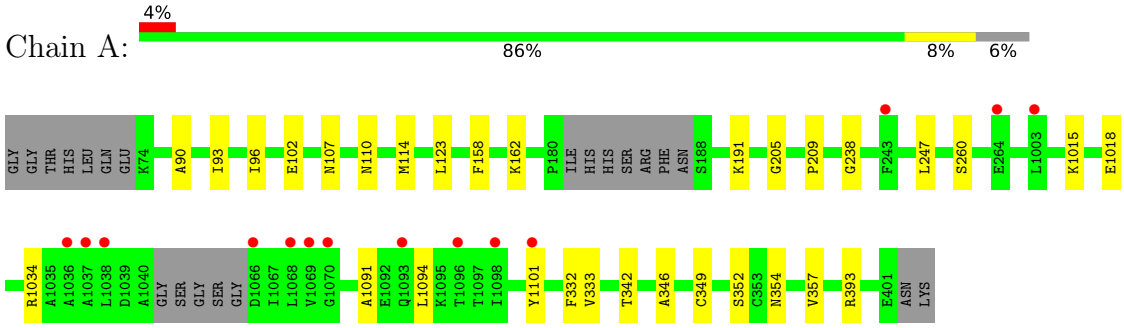


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C O 7 4 3	0	0
7	A	1	Total C O 7 4 3	0	0

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: 5-hydroxytryptamine receptor 2A,Soluble cytochrome b562



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 2 21	Depositor
Cell constants a, b, c, α, β, γ	48.89Å 54.03Å 177.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.19 – 2.70 47.14 – 2.70	Depositor EDS
% Data completeness (in resolution range)	96.0 (47.19-2.70) 96.1 (47.14-2.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.62 (at 2.69Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.248 , 0.270 0.250 , 0.267	Depositor DCC
R_{free} test set	632 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å^2)	61.7	Xtriage
Anisotropy	0.127	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 55.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	2930	wwPDB-VP
Average B, all atoms (Å^2)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.89% 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: MG, 1PE, EZX, OLC, CLR, PEG

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	0.67	0/2772	0.86	0/3774

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	2720	0	2752	17	0
2	A	1	0	0	0	0
3	A	28	0	0	0	0
4	A	107	0	137	3	0
5	A	44	0	63	3	0
6	A	16	0	22	0	0
7	A	14	0	20	0	0
All	All	2930	0	2994	18	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

The worst 5 of 18 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:162:LYS:HE3	1:A:332:PHE:HE1	1.59	0.67
1:A:349:CYS:HB2	1:A:352:SER:HB2	1.85	0.58
1:A:93:ILE:HG21	5:A:1205:CLR:H191	1.88	0.55
1:A:1015:LYS:HA	1:A:1018:GLU:HG2	1.89	0.53
1:A:102:GLU:OE1	1:A:393:ARG:NH2	2.40	0.53

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	349/376 (93%)	341 (98%)	8 (2%)	0	100 100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	288/322 (89%)	285 (99%)	3 (1%)	76 91

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

Mol	Chain	Res	Type
1	A	260	SER
1	A	1034	ARG

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Mol	Chain	Res	Type
1	A	1101	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

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

5.5 Carbohydrates (i)

There are no 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	$\#\|Z\| > 2$
4	OLC	A	1203	-	15,15,24	0.36	0	16,16,25	0.69	0
4	OLC	A	1209	-	13,13,24	0.48	0	14,14,25	0.50	0
4	OLC	A	1208	-	12,12,24	0.61	0	13,13,25	0.53	0
5	CLR	A	1204	-	27,27,31	0.34	0	43,43,48	0.62	0
4	OLC	A	1206	-	15,15,24	0.53	0	16,16,25	0.47	0
7	PEG	A	1212	-	6,6,6	0.36	0	5,5,5	0.16	0
4	OLC	A	1214	-	15,15,24	0.51	0	16,16,25	0.65	0
5	CLR	A	1205	-	23,23,31	0.44	0	37,37,48	0.67	0
6	1PE	A	1210	-	15,15,15	0.42	0	14,14,14	0.42	0
7	PEG	A	1211	-	6,6,6	0.17	0	5,5,5	0.14	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
4	OLC	A	1207	-	15,15,24	0.67	0	16,16,25	0.74	0
4	OLC	A	1213	-	15,15,24	0.41	0	16,16,25	0.63	0
3	EZX	A	1202	-	30,32,32	1.24	3 (10%)	35,46,46	1.34	3 (8%)

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
4	OLC	A	1203	-	-	8/15/15/24	-
4	OLC	A	1209	-	-	5/13/13/24	-
4	OLC	A	1208	-	-	4/12/12/24	-
5	CLR	A	1204	-	-	4/6/64/68	0/4/4/4
4	OLC	A	1206	-	-	7/15/15/24	-
7	PEG	A	1212	-	-	3/4/4/4	-
4	OLC	A	1214	-	-	8/15/15/24	-
5	CLR	A	1205	-	-	-	0/4/4/4
6	1PE	A	1210	-	-	7/13/13/13	-
7	PEG	A	1211	-	-	2/4/4/4	-
4	OLC	A	1207	-	-	5/15/15/24	-
4	OLC	A	1213	-	-	8/15/15/24	-
3	EZX	A	1202	-	-	5/10/31/31	0/4/5/5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1202	EZX	C7-N2	4.72	1.45	1.40
3	A	1202	EZX	C15-N2	2.61	1.50	1.47
3	A	1202	EZX	C7-C17	-2.59	1.39	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1202	EZX	C14-C15-N2	3.90	115.55	110.03
3	A	1202	EZX	C6-N2-C15	-3.54	110.34	115.28
3	A	1202	EZX	C5-N1-C16	2.65	113.57	109.52

There are no chirality outliers.

5 of 66 torsion outliers are listed below:

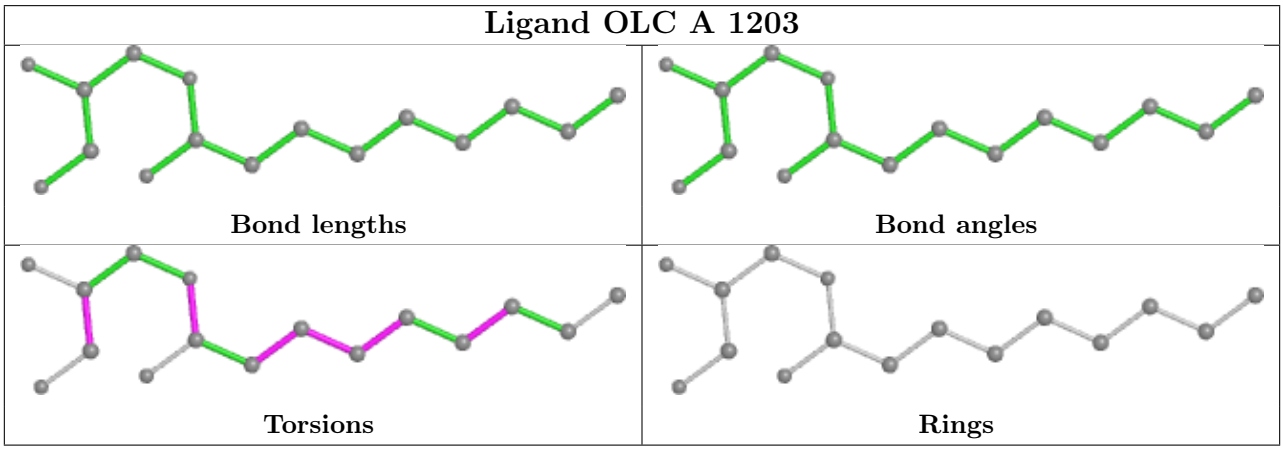
Mol	Chain	Res	Type	Atoms
4	A	1203	OLC	C21-C22-C24-O25
4	A	1206	OLC	C21-C22-C24-O25
4	A	1206	OLC	O23-C22-C24-O25
4	A	1206	OLC	O20-C21-C22-O23
4	A	1209	OLC	C21-C22-C24-O25

There are no ring outliers.

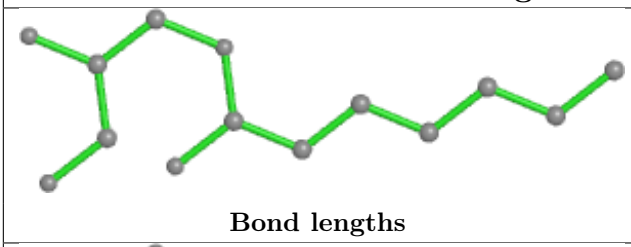
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1203	OLC	1	0
5	A	1204	CLR	1	0
5	A	1205	CLR	2	0
4	A	1213	OLC	2	0

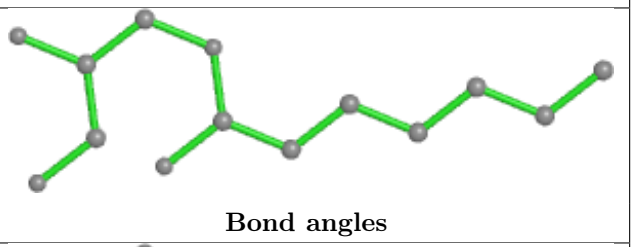
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



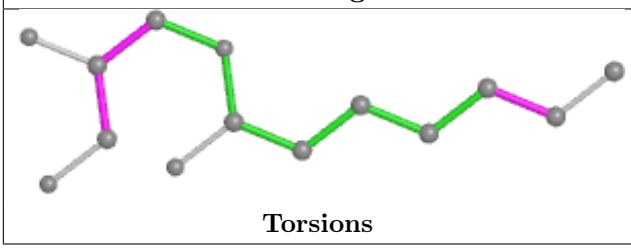
Ligand OLC A 1209



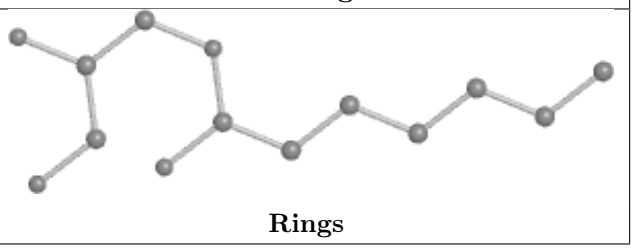
Bond lengths



Bond angles

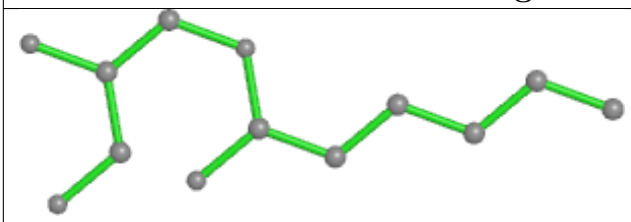


Torsions

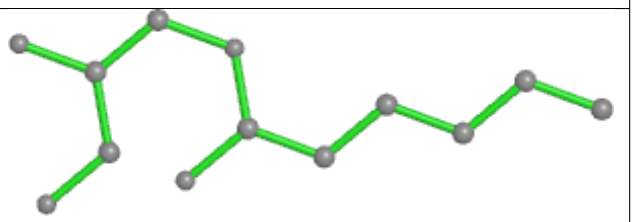


Rings

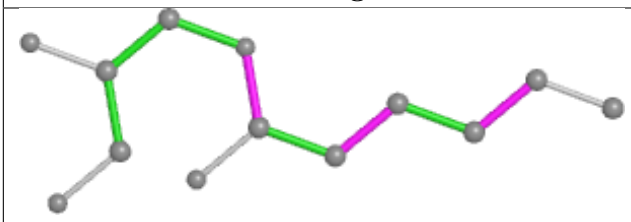
Ligand OLC A 1208



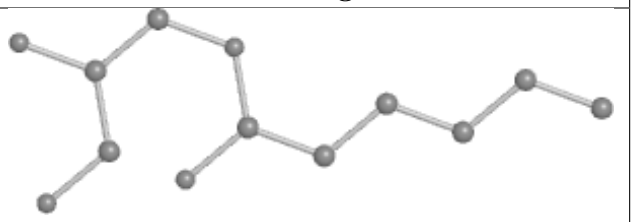
Bond lengths



Bond angles

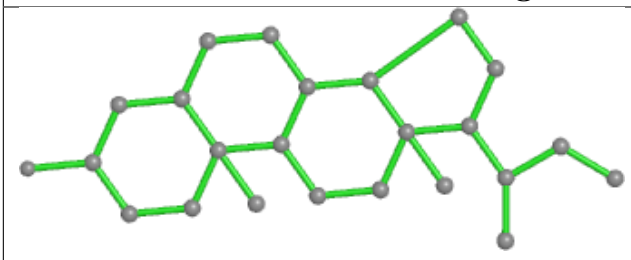


Torsions

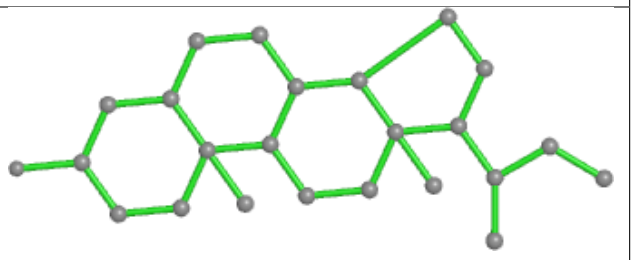


Rings

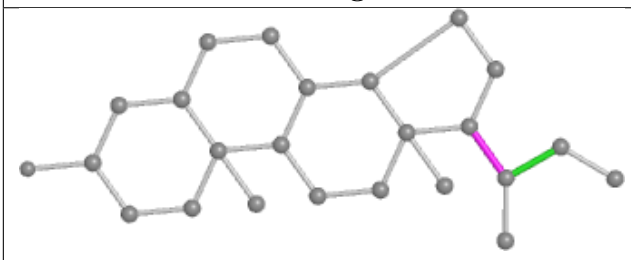
Ligand CLR A 1204



Bond lengths



Bond angles



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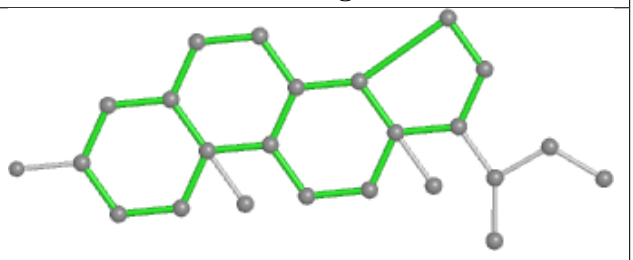
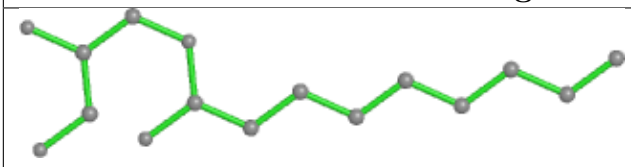
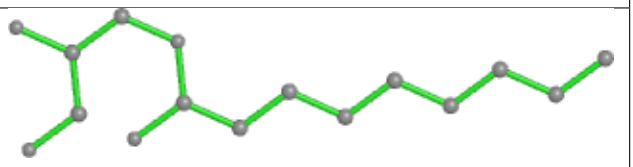
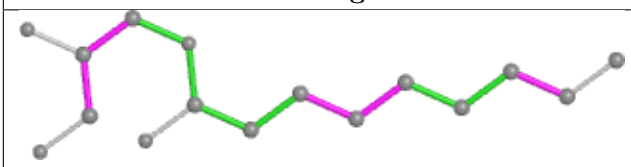


Rings

Ligand OLC A 1206


Bond lengths


Bond angles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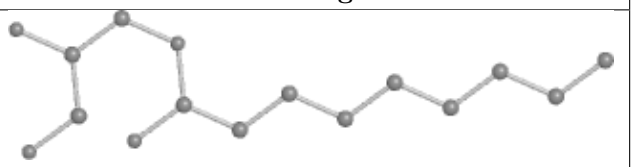
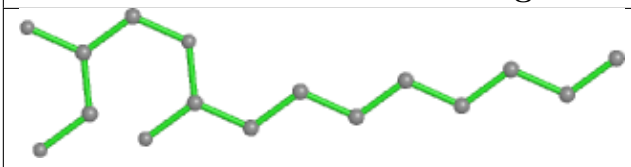
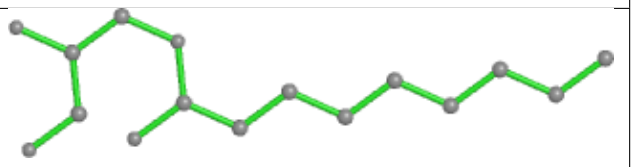
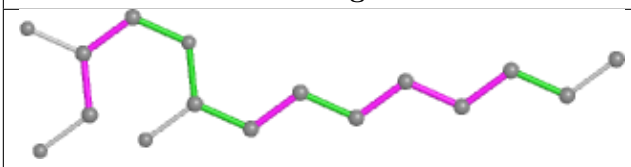
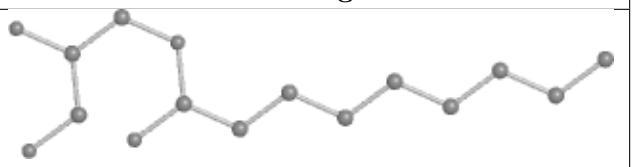

Rings

Ligand OLC A 1214

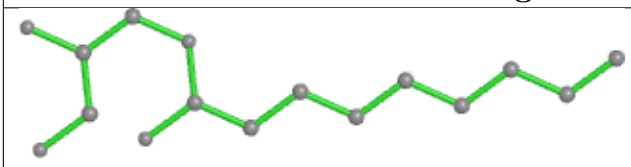

Bond lengths

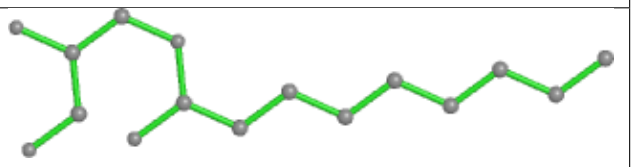

Bond angles

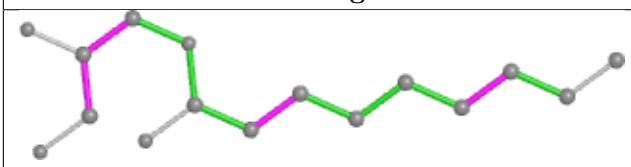

Torsions


Rings

Ligand OLC A 1207


Bond lengths


Bond angles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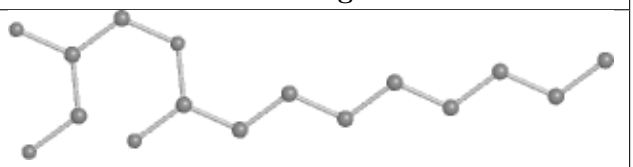
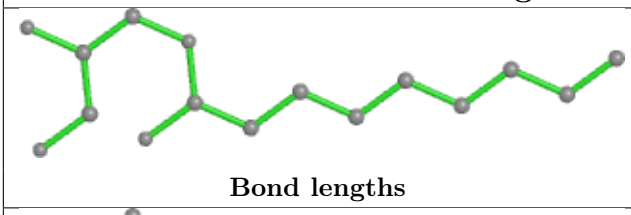
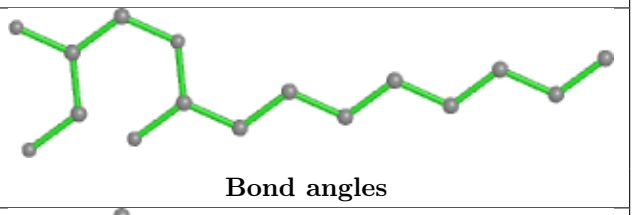

Rings

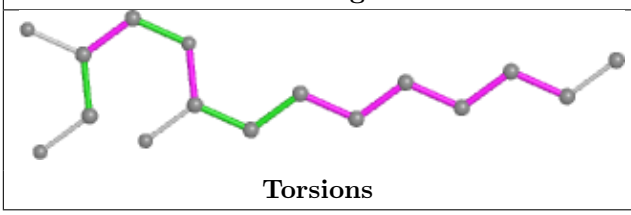
Ligand OLC A 1213



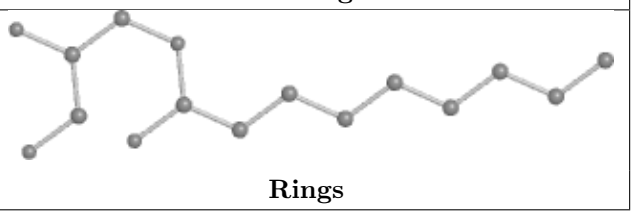
Bond lengths



Bond angles

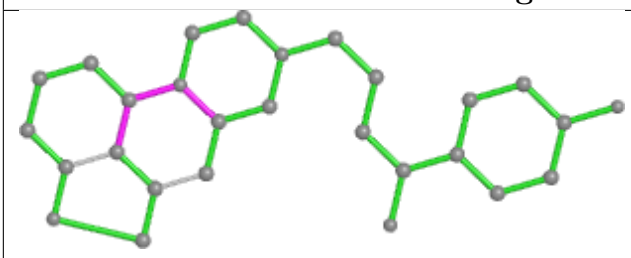


Torsions

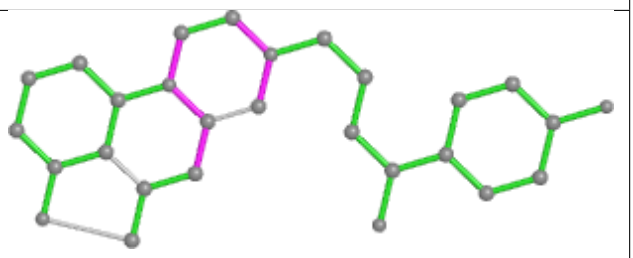


Rings

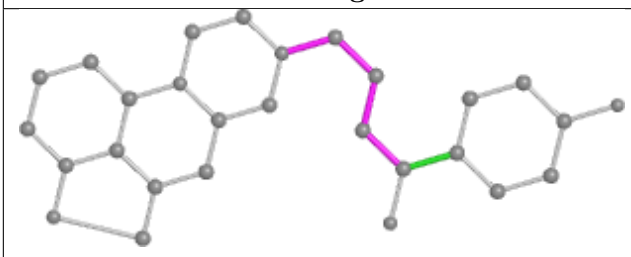
Ligand EZX A 1202



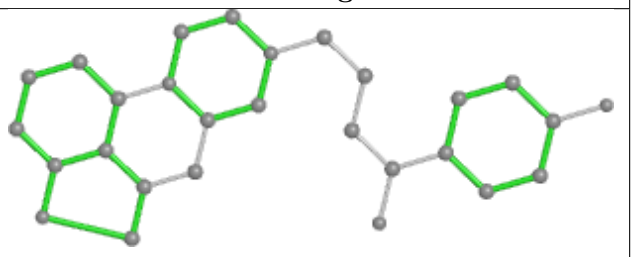
Bond lengths



Bond angles



Torsions



Rings

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	355/376 (94%)	0.02	14 (3%) 39 38	40, 66, 102, 126	0

The worst 5 of 14 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1066	ASP	4.5
1	A	1037	ALA	3.3
1	A	1038	LEU	3.1
1	A	1069	VAL	2.9
1	A	1003	LEU	2.8

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
4	OLC	A	1208	13/25	0.66	0.22	65,93,118,127	0
4	OLC	A	1207	16/25	0.67	0.44	60,81,98,99	0

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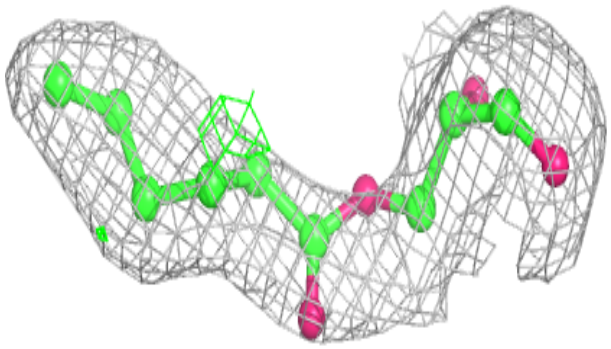
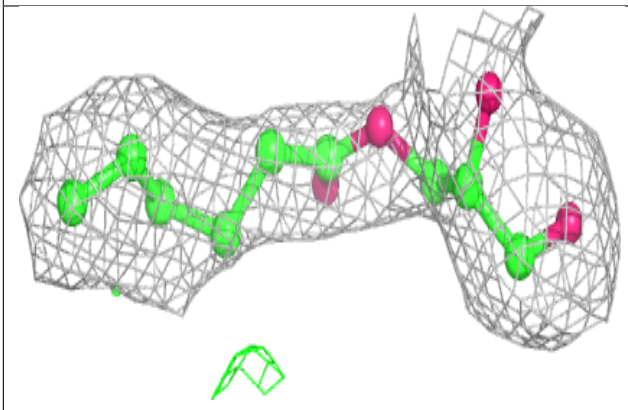
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	OLC	A	1214	16/25	0.73	0.39	70,89,131,169	0
6	1PE	A	1210	16/16	0.73	0.22	72,113,121,123	0
4	OLC	A	1209	14/25	0.79	0.25	68,85,116,117	0
4	OLC	A	1206	16/25	0.81	0.22	62,76,110,112	0
4	OLC	A	1213	16/25	0.85	0.34	65,79,122,127	0
7	PEG	A	1211	7/7	0.87	0.16	70,92,98,101	0
4	OLC	A	1203	16/25	0.89	0.24	45,77,92,98	0
5	CLR	A	1205	20/28	0.89	0.42	86,94,113,119	0
5	CLR	A	1204	24/28	0.91	0.25	72,106,129,141	0
3	EZX	A	1202	28/28	0.92	0.27	62,74,85,92	0
7	PEG	A	1212	7/7	0.92	0.19	68,77,84,96	0
2	MG	A	1201	1/1	0.98	0.10	20,20,20,20	1

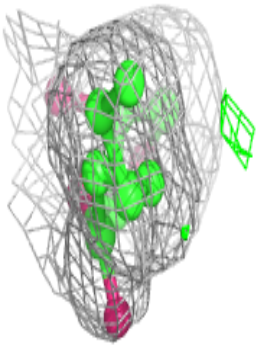
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around OLC A 1208:

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

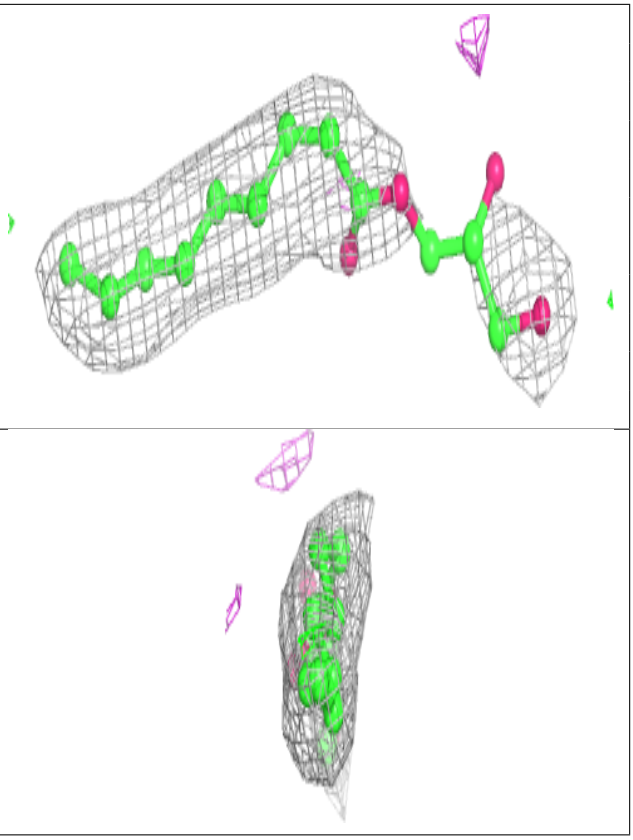






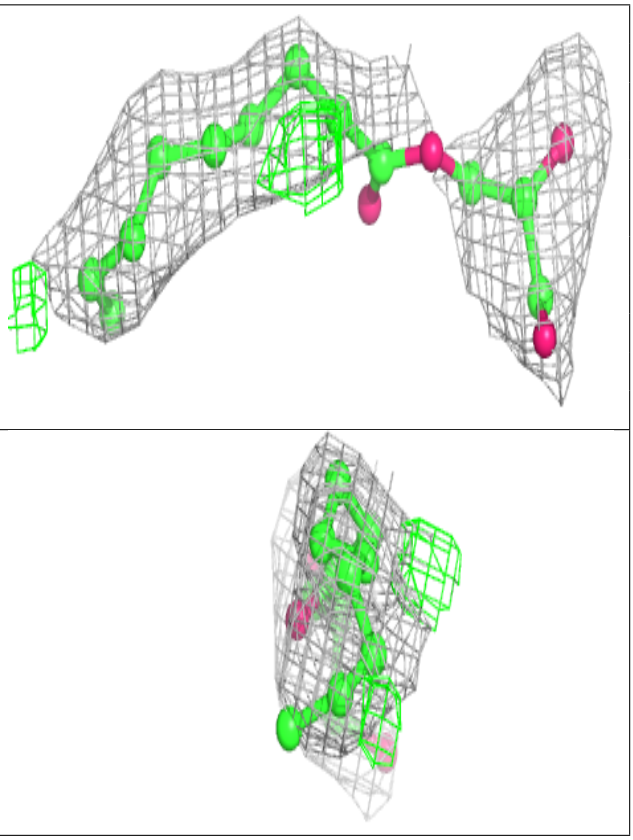
Electron density around OLC A 1207:

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



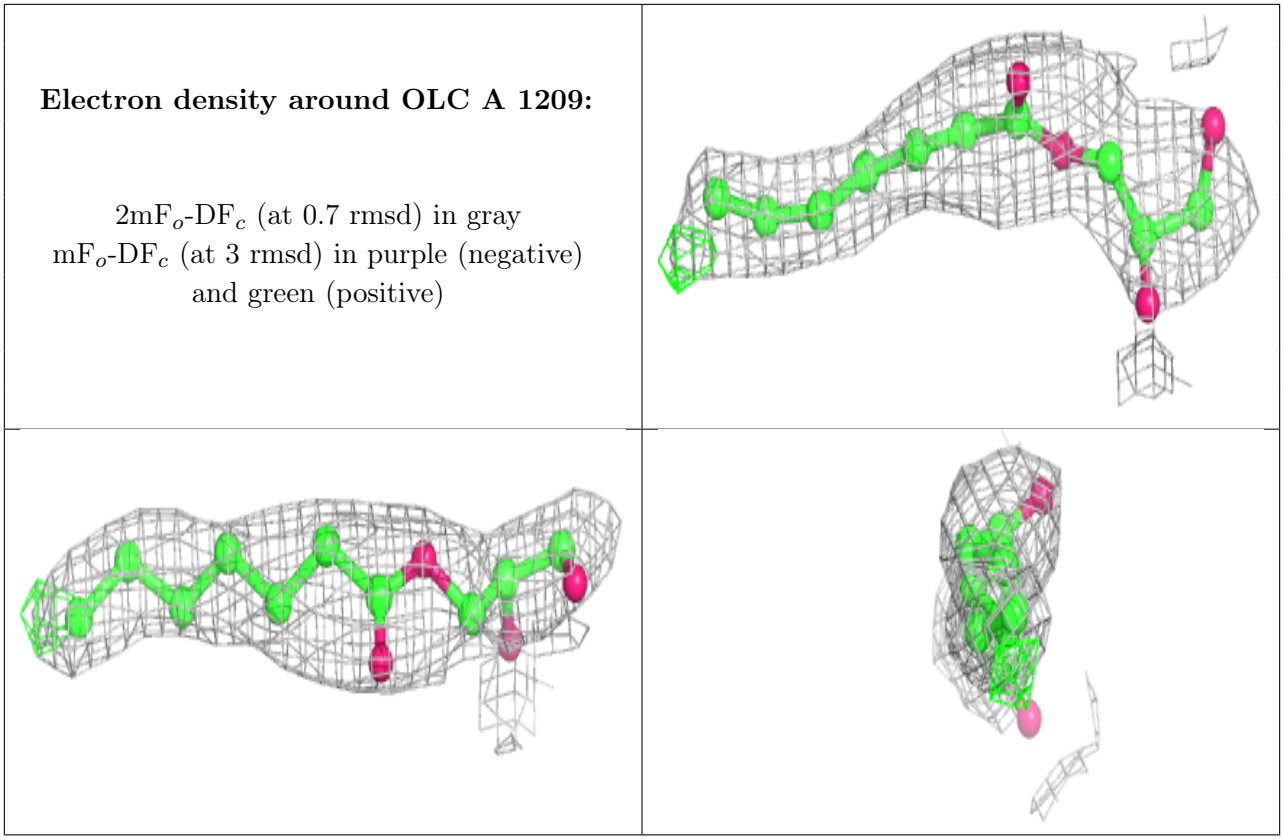
Electron density around OLC A 1214:

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



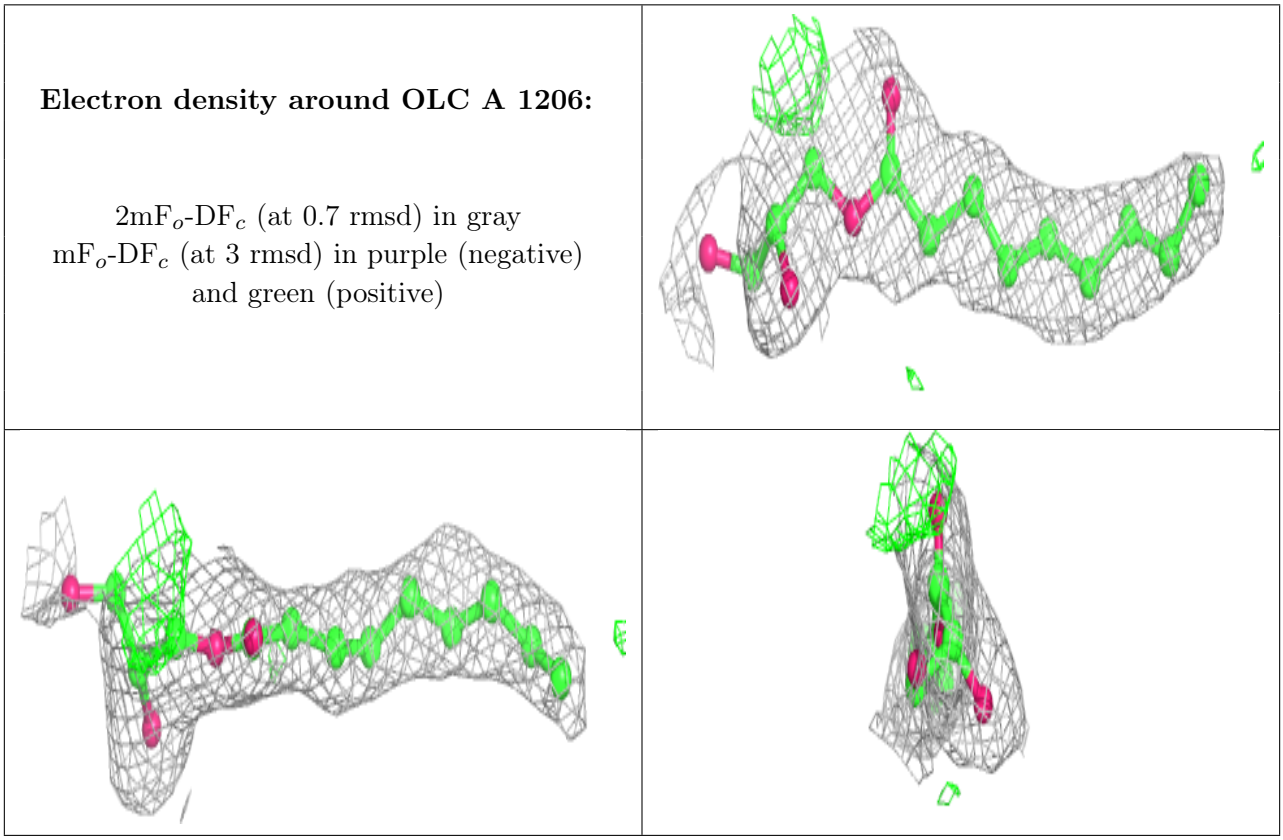
Electron density around OLC A 1209:

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



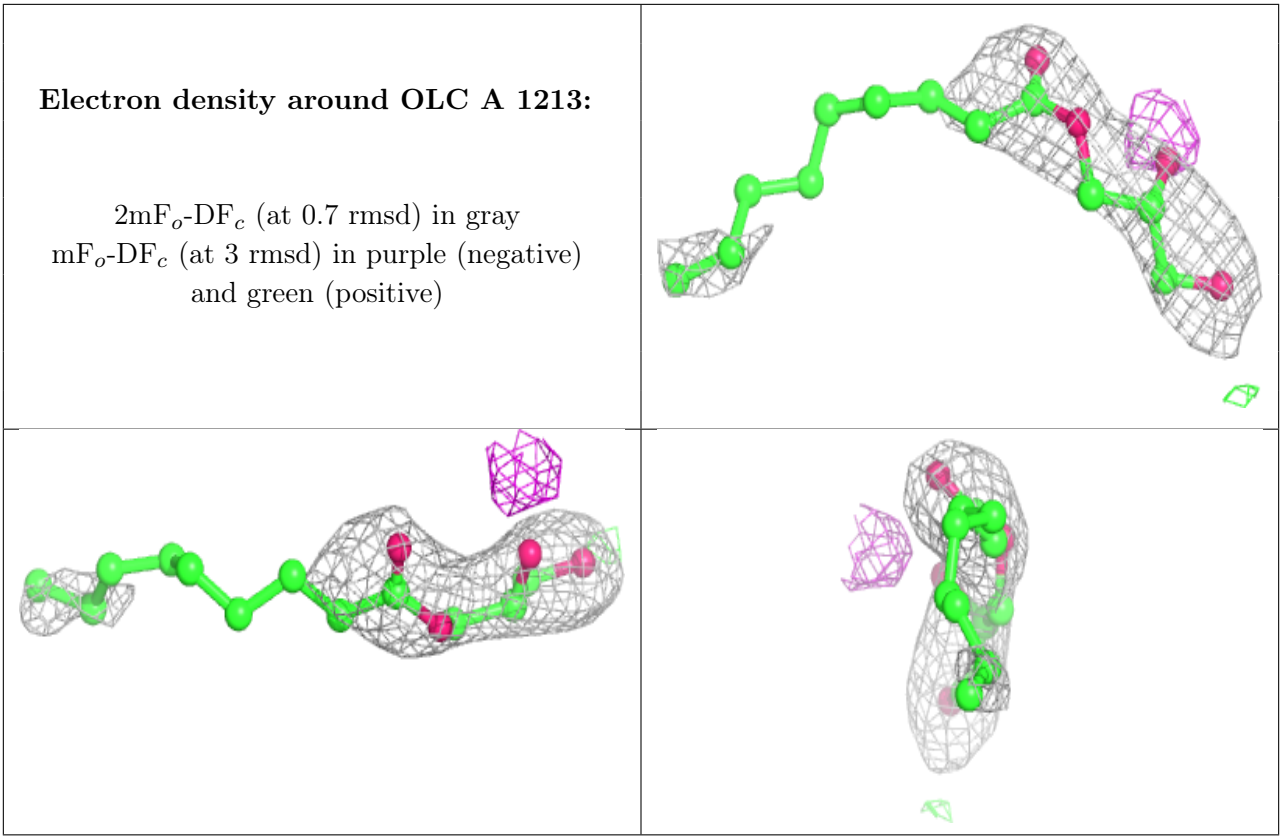
Electron density around OLC A 1206:

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



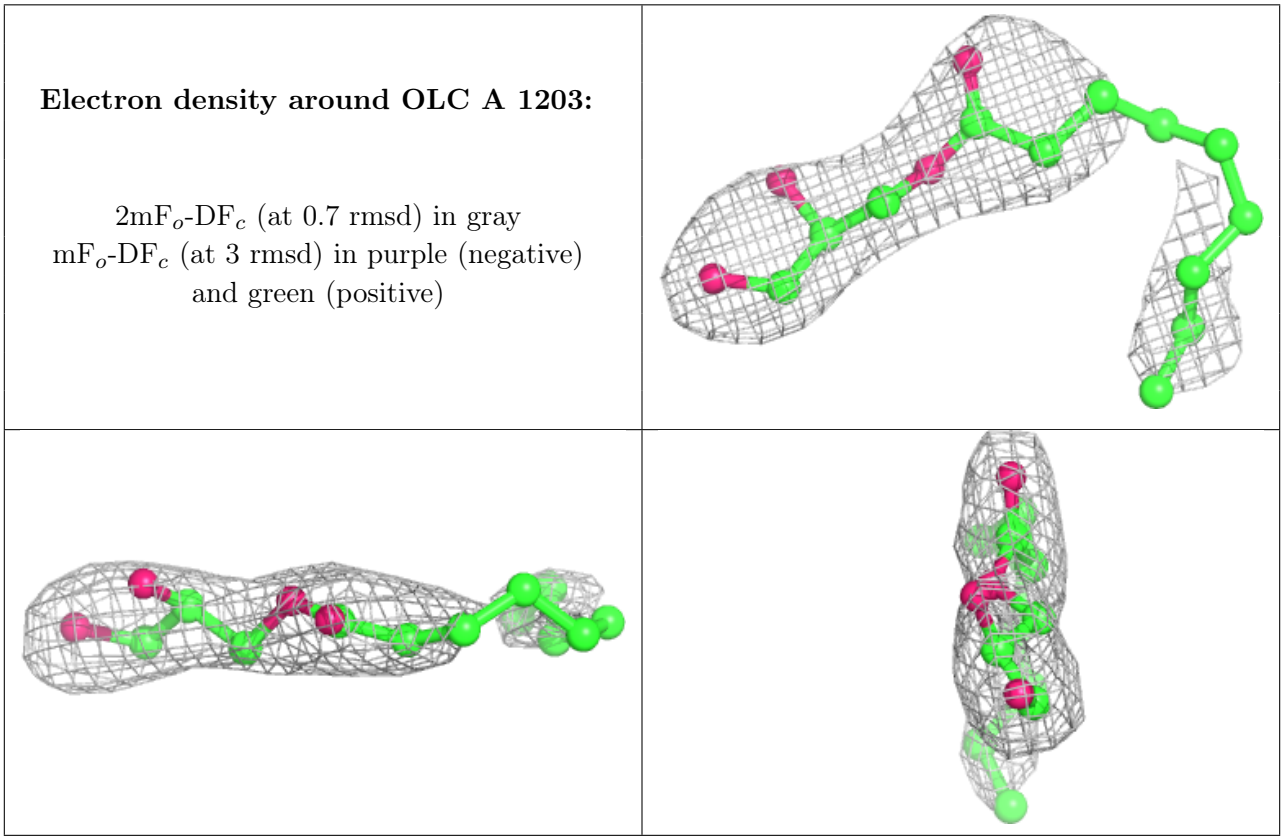
Electron density around OLC A 1213:

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



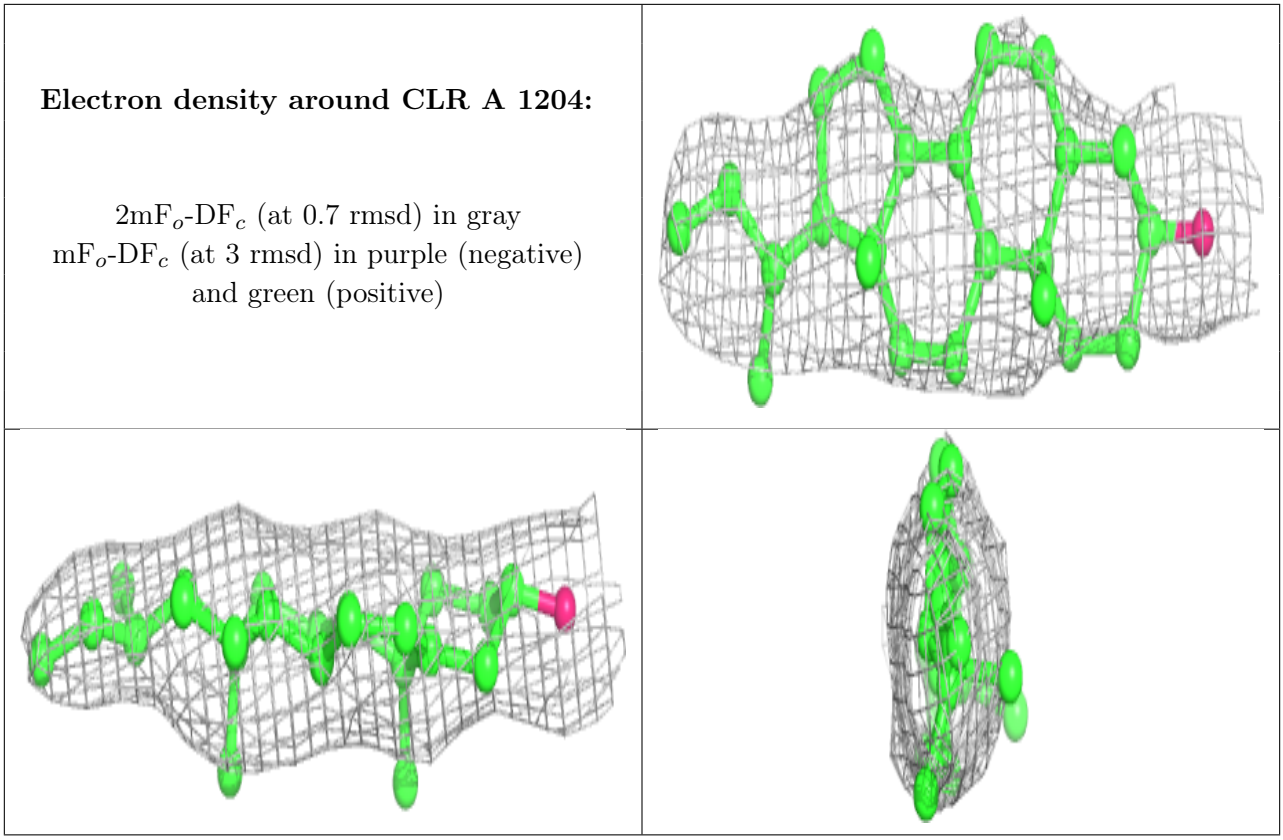
Electron density around OLC A 1203:

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



Electron density around CLR A 1204:

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



Electron density around EZX A 1202:

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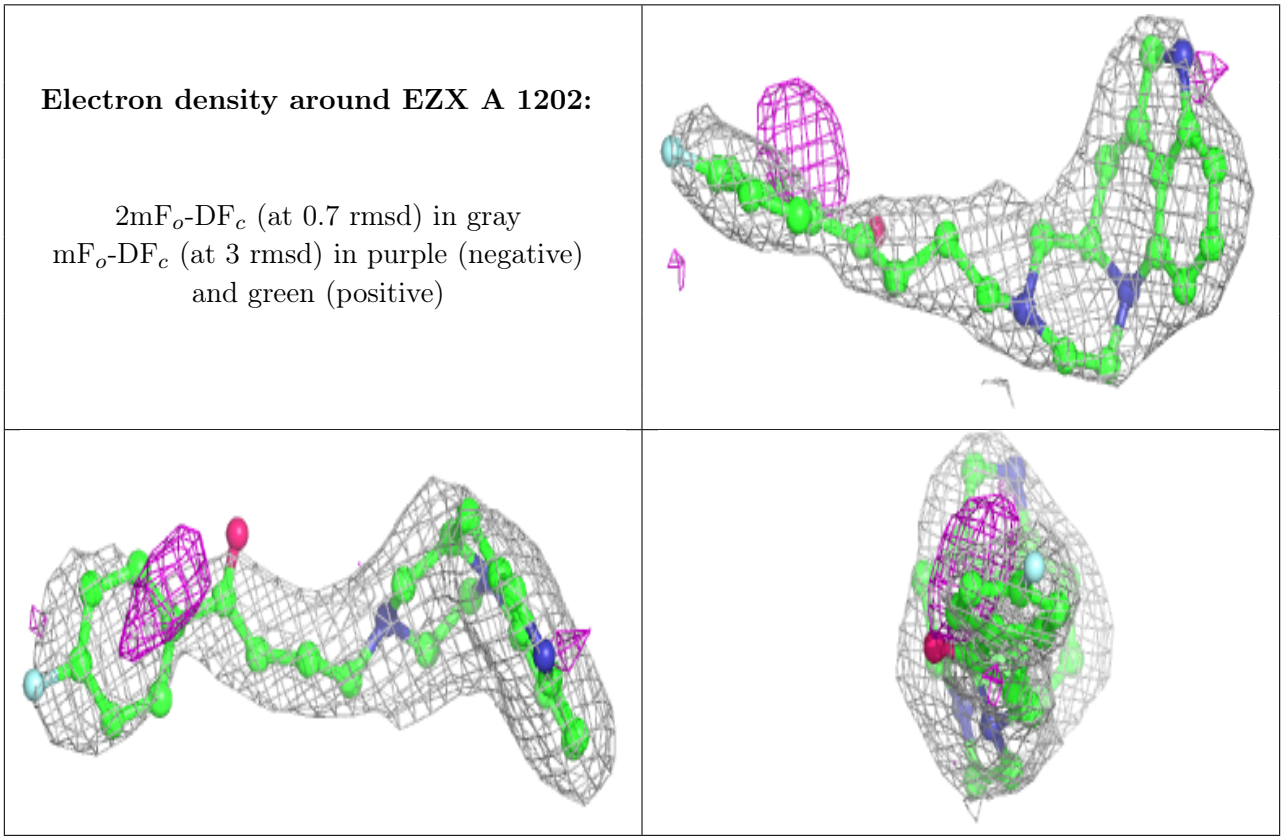
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.