

Full wwPDB X-ray Structure Validation Report (i)

Nov 15, 2023 – 06:21 PM JST

PDB ID	:	6JYD
Title	:	Structure of light-state marine bacterial chloride importer, NM-R3, with CW
		laser (ND- 30%) at 95K.
Authors	:	Yun, J.H.; Ohki, M.; Park, S.Y.; Lee, W.
Deposited on		
Resolution	:	2.01 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

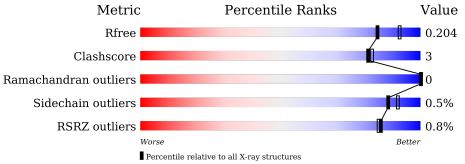
MolProbity Mogul Xtriage (Phenix) EDS	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.36
buster-report Percentile statistics Refmac	: : :	1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.01 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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	А	296	% 8 5%	•	11%



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2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2310 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 Chloride pumping rhodopsin.

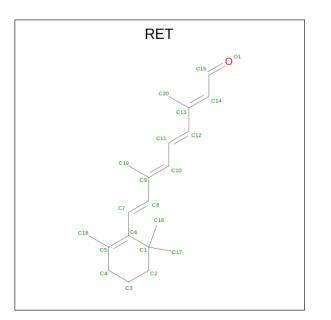
Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	264	Total	C	N 201	0	S 14	0	0	0
			2072	1378	321	359	14			

Chain	Residue	Modelled	Actual	Comment	Reference
А	-15	MET	-	expression tag	UNP W8VZW3
А	-14	ALA	-	expression tag	UNP W8VZW3
А	-13	SER	-	expression tag	UNP W8VZW3
А	-12	MET	-	expression tag	UNP W8VZW3
А	-11	THR	-	expression tag	UNP W8VZW3
А	-10	GLY	-	expression tag	UNP W8VZW3
А	-9	GLY	-	expression tag	UNP W8VZW3
А	-8	GLN	-	expression tag	UNP W8VZW3
А	-7	GLN	-	expression tag	UNP W8VZW3
A	-6	MET	-	expression tag	UNP W8VZW3
А	-5	GLY	-	expression tag	UNP W8VZW3
A	-4	ARG	-	expression tag	UNP W8VZW3
А	-3	ASP	-	expression tag	UNP W8VZW3
А	-2	PRO	-	expression tag	UNP W8VZW3
А	-1	ASN	-	expression tag	UNP W8VZW3
А	0	SER	-	expression tag	UNP W8VZW3
А	273	LEU	-	expression tag	UNP W8VZW3
A	274	GLU	-	expression tag	UNP W8VZW3
А	275	HIS	-	expression tag	UNP W8VZW3
А	276	HIS	-	expression tag	UNP W8VZW3
А	277	HIS	-	expression tag	UNP W8VZW3
А	278	HIS	-	expression tag	UNP W8VZW3
А	279	HIS	-	expression tag	UNP W8VZW3
A	280	HIS	-	expression tag	UNP W8VZW3

There are 24 discrepancies between the modelled and reference sequences:

• Molecule 2 is RETINAL (three-letter code: RET) (formula: $C_{20}H_{28}O$) (labeled as "Ligand of Interest" by depositor).



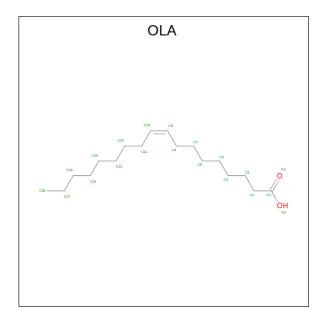


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total C 20 20	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total Cl 2 2	0	0

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





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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C O 14 12 2	0	0
4	А	1	Total C O 20 18 2	0	0
4	А	1	Total C O 18 16 2	0	0
4	А	1	Total C O 10 8 2	0	0
4	А	1	Total C O 12 10 2	0	0
4	А	1	Total C 10 10	0	0
4	А	1	Total C 6 6	0	0
4	А	1	Total C 9 9	0	0
4	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 9 7 2 \end{array}$	0	0
4	А	1	TotalCO972	0	0
4	А	1	Total C 11 11	0	0

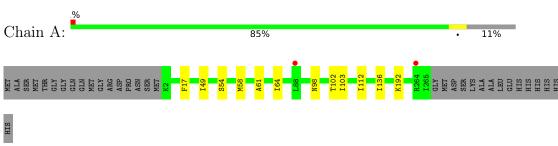
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	88	Total O 88 88	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: Chloride pumping rhodopsin



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	102.78Å 49.28Å 69.33Å	Depositor
a, b, c, α , β , γ	90.00° 110.03° 90.00°	Depositor
Resolution (Å)	47.31 - 2.01	Depositor
Resolution (A)	47.31 - 2.01	EDS
% Data completeness	95.9 (47.31-2.01)	Depositor
(in resolution range)	95.9(47.31-2.01)	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.63 (at 2.01 \text{\AA})$	Xtriage
Refinement program	PHENIX dev_1839	Depositor
D D.	0.163 , 0.204	Depositor
R, R_{free}	0.163 , 0.204	DCC
R_{free} test set	1085 reflections $(5.13%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	23.5	Xtriage
Anisotropy	0.578	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 72.9	EDS
L-test for twinning ²	$ \langle L \rangle = 0.48, \langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2310	wwPDB-VP
Average B, all atoms $(Å^2)$	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.30% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

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

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		
	Chain	RMSZ	# Z > 5	RMSZ $ \# Z > 3$		
1	А	0.25	0/2124	0.39	0/2896	

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2072	0	2105	7	0
2	А	20	0	27	2	0
3	А	2	0	0	2	0
4	А	128	0	183	3	0
5	А	88	0	0	2	0
All	All	2310	0	2315	12	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 (12) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1

2:A:301:RET:H171

4:A:305:OLA:H61

1:A:49:ILE:HG23

1:A:103:ILE:HD12

1:A:61:ALA:O

2:A:301:RET:H181

3:A:303:CL:CL

4:A:304:OLA:H71

1:A:17:PHE:HZ

1:A:98:ASN:ND2

1:A:102:THR:HG21

1:A:54:SER:O

1.57

2.58

1.58

1.84

2.49

2.56

2.20

Full wwPDB X-ray	Full wwPDB X-ray Structure Validation Report								
Atom-2	Interatomic	Clash							
Atom-2	distance (Å)	overlap (Å)							
2:A:301:RET:H8	1.80	0.64							
4:A:307:OLA:H41	1.80	0.62							
1:A:112:ILE:HD13	1.82	0.60							
1:A:136:ILE:HD11	1.94	0.48							
1:A:64:ILE:HG22	2.16	0.46							

0.46

0.46

0.45

0.43

0.43

0.43

0.41

There are no symmetry-related clashes.

2:A:301:RET:H7

5:A:487:HOH:O

4:A:304:OLA:H42

4:A:305:OLA:H9

5:A:407:HOH:O

3:A:302:CL:CL

1:A:58:MET:HG2

5.3Torsion angles (i)

5.3.1Protein 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	А	262/296~(88%)	259~(99%)	3 (1%)	0	100 100

There are no Ramachandran outliers to report.

5.3.2Protein sidechains (i)

In the following table, the Percentiles column shows the percent side 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	А	217/242~(90%)	216 (100%)	1 (0%)	88 92	

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	192	LYS

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

Mol	Chain	Chain Res	
1	А	98	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 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	Dec	Link	Bo	ond leng	\mathbf{ths}	В	ond ang	les
	туре	Chain	\mathbf{Res}	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	OLA	А	313	-	8,8,19	0.71	0	8,8,19	1.23	0
4	OLA	А	304	-	13,13,19	0.94	1 (7%)	12,13,19	1.13	2 (16%)



Mol	Turne	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	les
	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	OLA	А	305	-	19,19,19	0.80	1 (5%)	19,19,19	0.87	0
4	OLA	А	314	-	10,10,19	0.81	1 (10%)	9,9,19	0.72	0
4	OLA	А	311	-	8,8,19	0.34	0	7,7,19	0.78	0
4	OLA	А	306	-	17,17,19	0.83	1 (5%)	17,17,19	1.00	2 (11%)
4	OLA	А	307	-	9,9,19	0.66	0	9,9,19	1.19	1 (11%)
4	OLA	А	309	-	9,9,19	0.98	1 (11%)	8,8,19	0.64	0
4	OLA	А	310	-	$5,\!5,\!19$	0.33	0	4,4,19	0.60	0
4	OLA	А	312	-	8,8,19	0.70	0	8,8,19	1.27	1 (12%)
4	OLA	А	308	-	11,11,19	1.04	1 (9%)	11,11,19	1.17	1 (9%)
2	RET	А	301	1	20,20,21	0.61	0	27,27,28	1.55	5 (18%)

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	OLA	А	313	-	-	5/6/6/17	-
4	OLA	А	304	-	-	7/11/11/17	-
4	OLA	А	305	-	-	8/17/17/17	-
4	OLA	А	314	-	-	5/8/8/17	-
4	OLA	А	311	-	-	4/6/6/17	-
4	OLA	А	306	-	-	7/15/15/17	-
4	OLA	А	307	-	-	3/7/7/17	-
4	OLA	А	309	-	-	3/7/7/17	-
4	OLA	А	310	-	-	1/3/3/17	-
4	OLA	А	312	-	-	3/6/6/17	-
4	OLA	А	308	-	-	6/9/9/17	-
2	RET	А	301	1	-	0/13/30/31	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
4	А	309	OLA	C9-C10	2.84	1.47	1.28
4	А	308	OLA	C10-C9	2.79	1.47	1.28
4	А	304	OLA	C10-C9	2.73	1.47	1.31
4	А	305	OLA	C10-C9	2.73	1.47	1.31
4	А	306	OLA	C10-C9	2.73	1.47	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	314	OLA	C10-C9	2.42	1.47	1.29

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	301	RET	C18-C5-C6	-4.43	119.55	124.53
2	А	301	RET	C1-C6-C7	2.54	122.97	115.78
2	А	301	RET	C7-C6-C5	-2.44	115.56	121.46
2	А	301	RET	C10-C11-C12	-2.40	115.74	123.22
2	А	301	RET	C11-C10-C9	-2.36	123.95	127.31
4	А	306	OLA	C3-C2-C1	-2.22	108.88	114.47
4	А	304	OLA	O2-C1-C2	2.17	120.99	114.03
4	А	306	OLA	O2-C1-C2	2.07	120.68	114.03
4	А	312	OLA	O2-C1-C2	2.07	120.67	114.03
4	А	307	OLA	O2-C1-C2	2.05	120.63	114.03
4	А	304	OLA	C3-C2-C1	-2.04	109.33	114.47
4	А	308	OLA	O2-C1-C2	2.04	120.58	114.03

There are no chirality outliers.

All (52) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	314	OLA	С11-С10-С9-С8
4	А	305	OLA	С11-С10-С9-С8
4	А	311	OLA	C3-C4-C5-C6
4	А	305	OLA	C1-C2-C3-C4
4	А	313	OLA	C1-C2-C3-C4
4	А	306	OLA	C1-C2-C3-C4
4	А	307	OLA	C1-C2-C3-C4
4	А	304	OLA	C3-C4-C5-C6
4	А	307	OLA	C4-C5-C6-C7
4	А	304	OLA	C4-C5-C6-C7
4	А	305	OLA	C4-C5-C6-C7
4	А	306	OLA	C3-C4-C5-C6
4	А	309	OLA	C11-C12-C13-C14
4	А	308	OLA	C1-C2-C3-C4
4	А	305	OLA	C12-C13-C14-C15
4	А	306	OLA	C12-C13-C14-C15
4	А	304	OLA	C5-C6-C7-C8
4	А	304	OLA	C6-C7-C8-C9
4	А	311	OLA	C5-C6-C7-C8
4	А	305	OLA	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
4	А	312	OLA	C4-C5-C6-C7
4	А	314	OLA	C11-C12-C13-C14
4	А	310	OLA	C1-C2-C3-C4
4	А	313	OLA	C4-C5-C6-C7
4	А	304	OLA	C11-C10-C9-C8
4	А	306	OLA	C11-C10-C9-C8
4	А	306	OLA	C5-C6-C7-C8
4	А	309	OLA	C12-C13-C14-C15
4	А	314	OLA	C10-C11-C12-C13
4	А	304	OLA	C9-C10-C11-C12
4	А	308	OLA	C5-C6-C7-C8
4	А	312	OLA	C3-C4-C5-C6
4	А	309	OLA	C9-C10-C11-C12
4	А	311	OLA	C6-C7-C8-C9
4	А	313	OLA	C3-C4-C5-C6
4	А	307	OLA	C3-C4-C5-C6
4	А	308	OLA	C2-C3-C4-C5
4	А	306	OLA	C9-C10-C11-C12
4	А	314	OLA	C9-C10-C11-C12
4	А	311	OLA	C4-C5-C6-C7
4	А	308	OLA	C7-C8-C9-C10
4	А	306	OLA	C4-C5-C6-C7
4	А	308	OLA	O2-C1-C2-C3
4	А	305	OLA	C9-C10-C11-C12
4	А	308	OLA	O1-C1-C2-C3
4	А	305	OLA	C7-C8-C9-C10
4	А	304	OLA	C7-C8-C9-C10
4	А	313	OLA	O2-C1-C2-C3
4	А	313	OLA	O1-C1-C2-C3
4	А	314	OLA	C13-C14-C15-C16
4	А	305	OLA	C6-C7-C8-C9
4	А	312	OLA	O1-C1-C2-C3

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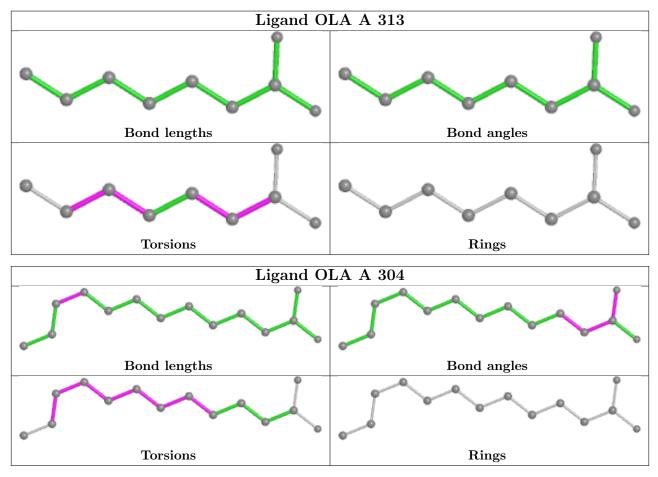
There are no ring outliers.

4 monomers are involved in 5 short contacts:

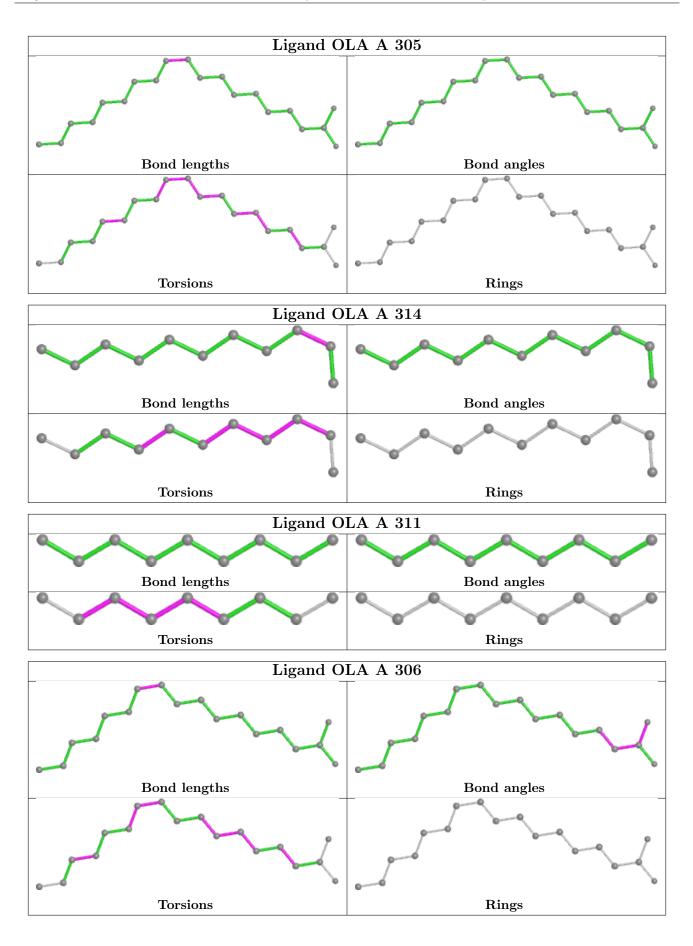
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	304	OLA	1	0
4	А	305	OLA	2	0
4	А	307	OLA	1	0
2	А	301	RET	2	0



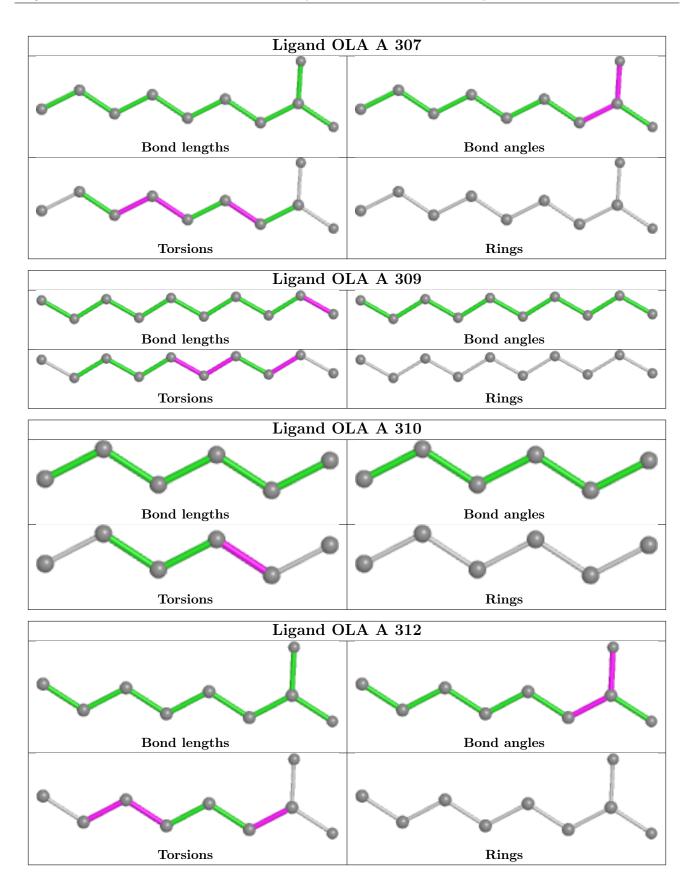
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



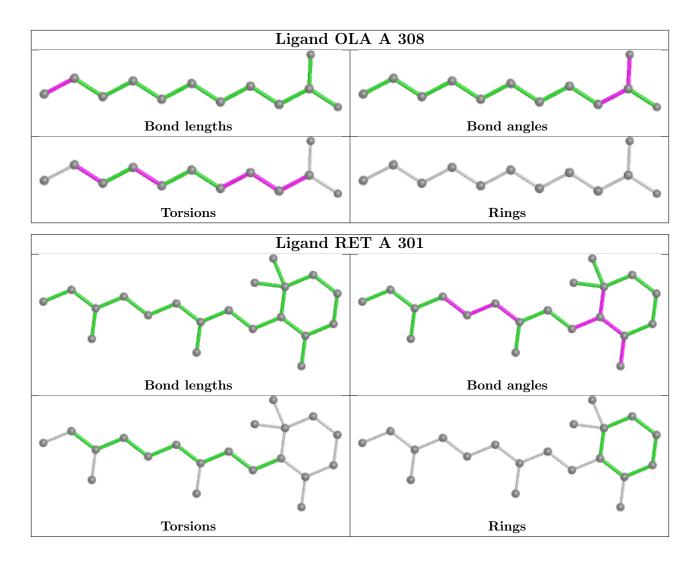












5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	#RSRZ>2		$\mathbf{OWAB}(\mathbf{A}^2)$	Q < 0.9
1	А	264/296~(89%)	-0.65	2 (0%) 86	85	16, 24, 45, 75	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	88	LEU	2.9
1	А	264	ARG	2.4

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q < 0.9
4	OLA	А	314	11/20	0.72	0.20	$36,\!54,\!66,\!73$	0
4	OLA	А	308	12/20	0.81	0.12	41,53,70,75	0
4	OLA	А	313	9/20	0.84	0.14	51,53,63,88	0
4	OLA	А	306	18/20	0.85	0.17	37,46,67,73	0
4	OLA	А	307	10/20	0.86	0.17	42,58,77,81	0

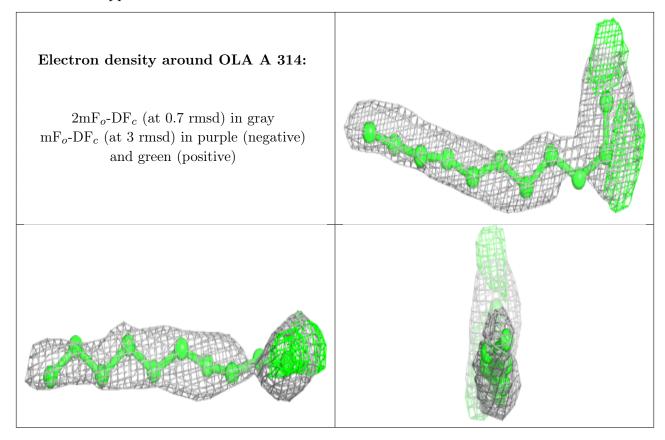
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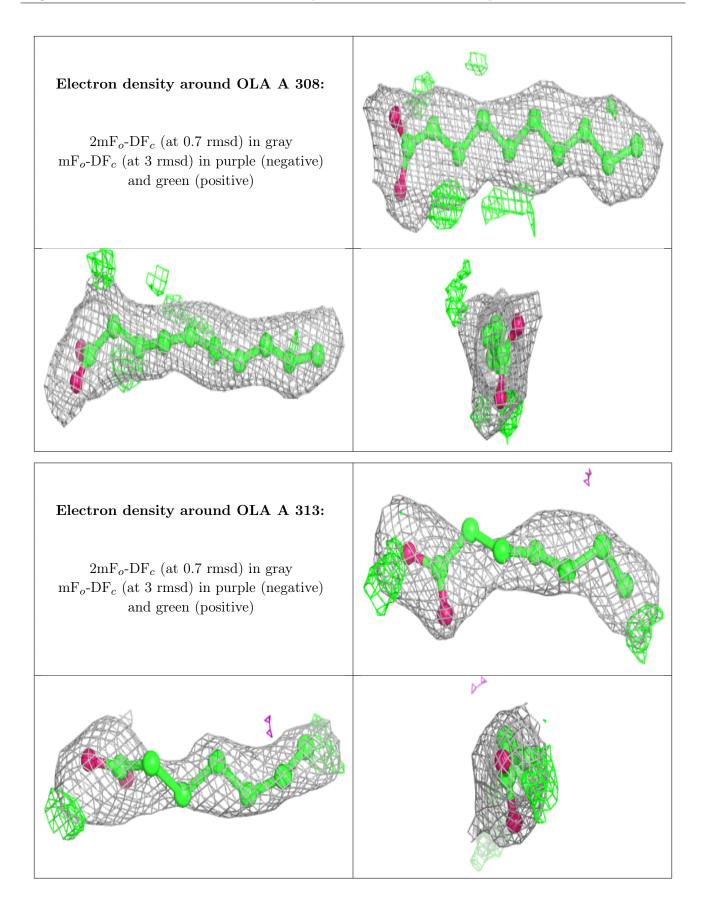
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B -factors($Å^2$)	Q<0.9
4	OLA	А	312	9/20	0.87	0.27	45,64,72,85	0
4	OLA	А	311	9/20	0.88	0.15	40,42,49,58	0
4	OLA	А	305	20/20	0.89	0.17	18,42,64,106	0
4	OLA	А	310	6/20	0.90	0.12	45,49,57,63	0
4	OLA	А	309	10/20	0.91	0.16	$25,\!50,\!63,\!67$	0
4	OLA	А	304	14/20	0.92	0.14	$29,\!49,\!78,\!88$	0
2	RET	А	301	20/21	0.97	0.09	$16,\!20,\!25,\!26$	0
3	CL	А	303	1/1	0.98	0.06	40,40,40,40	0
3	CL	А	302	1/1	0.99	0.06	29,29,29,29	0

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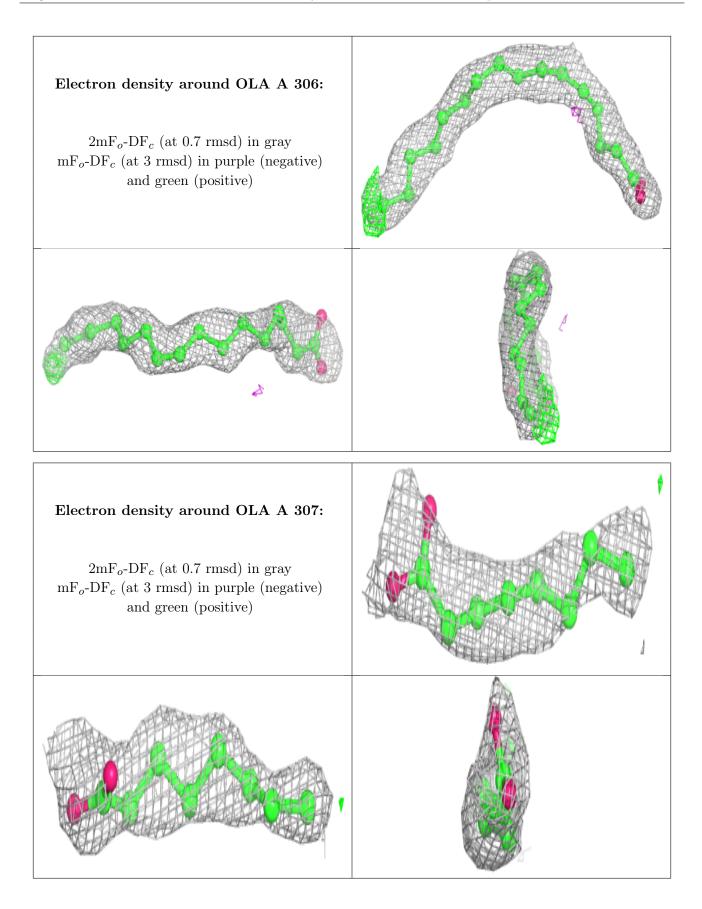
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



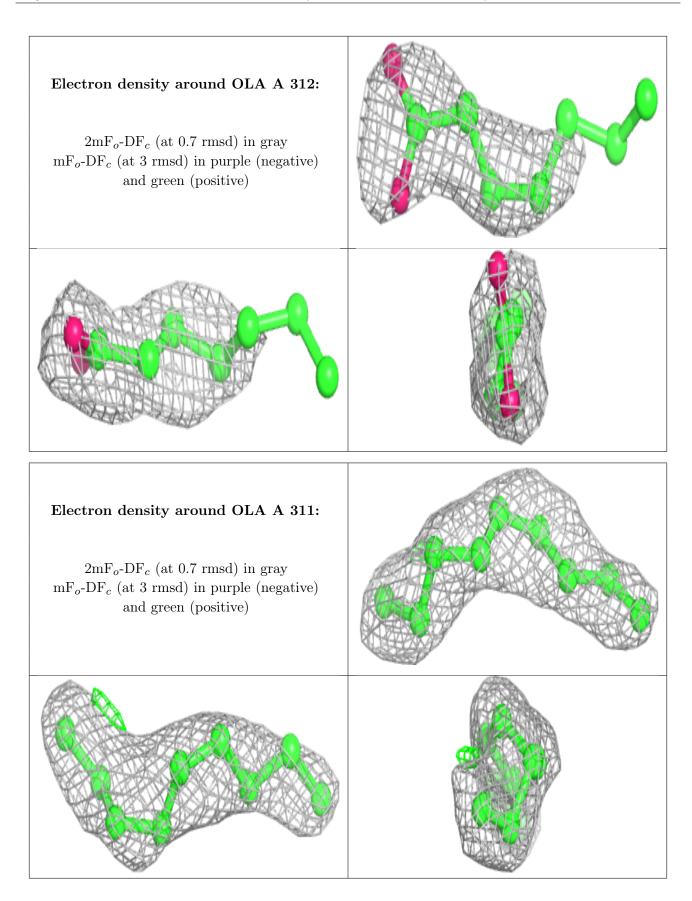




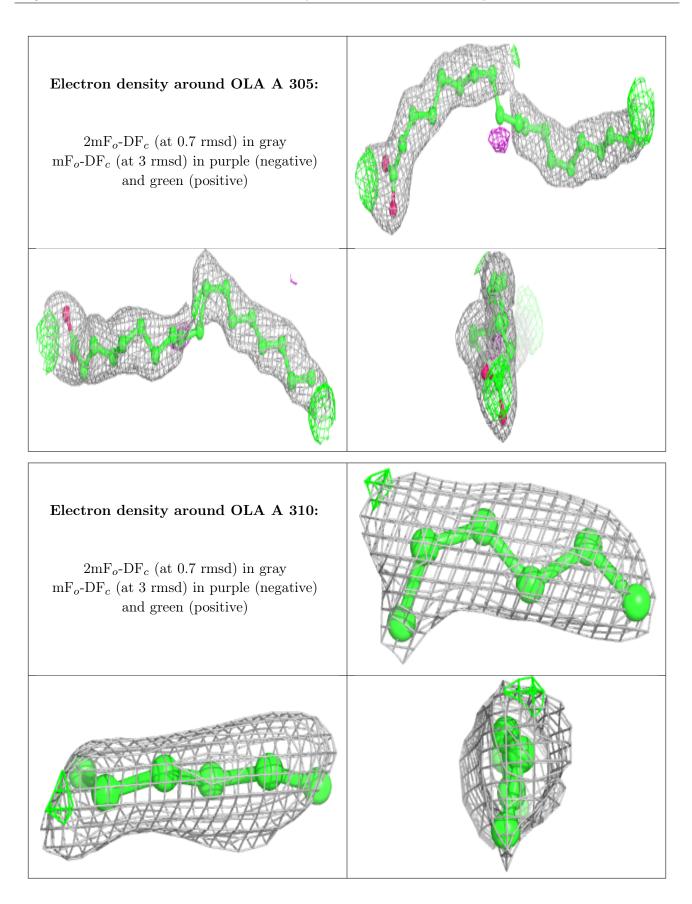




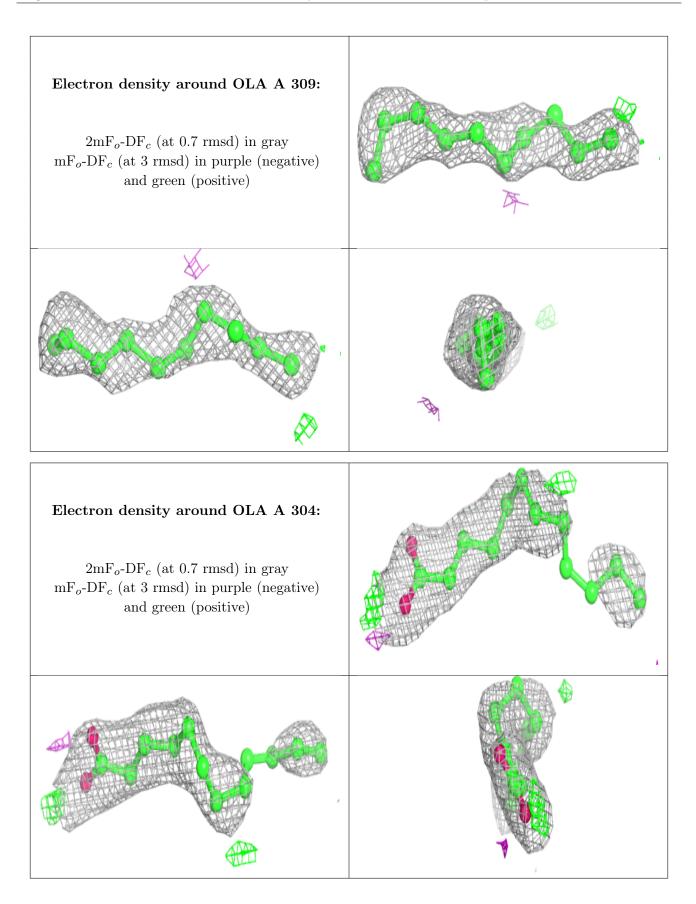




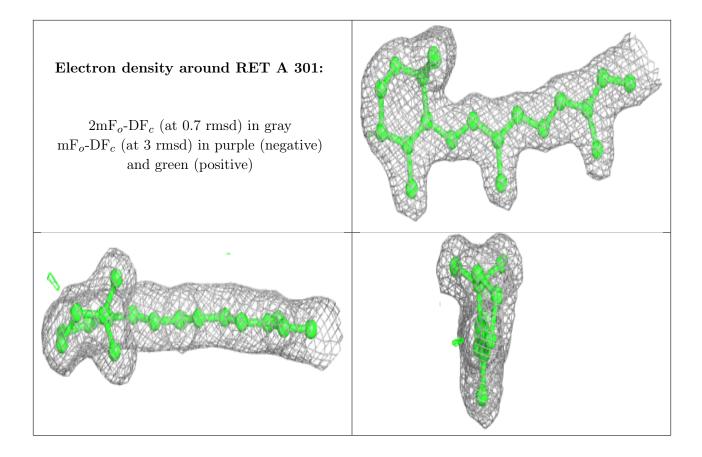




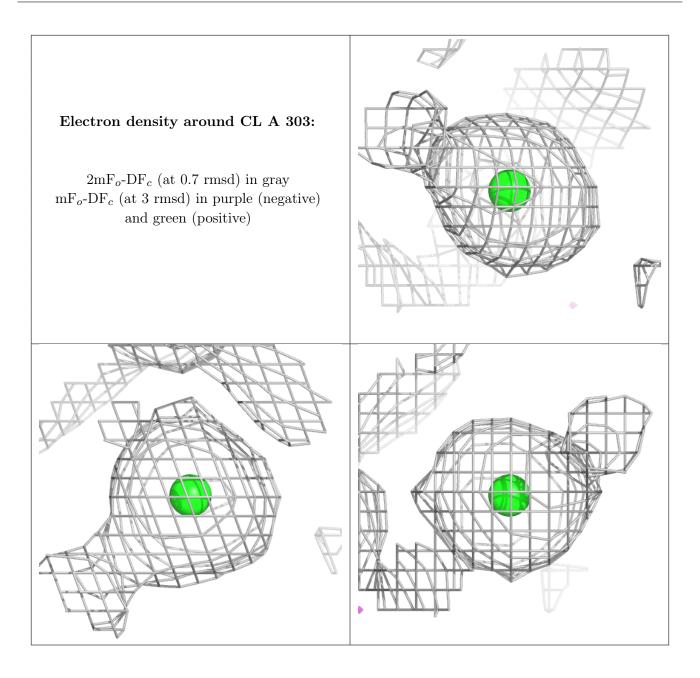




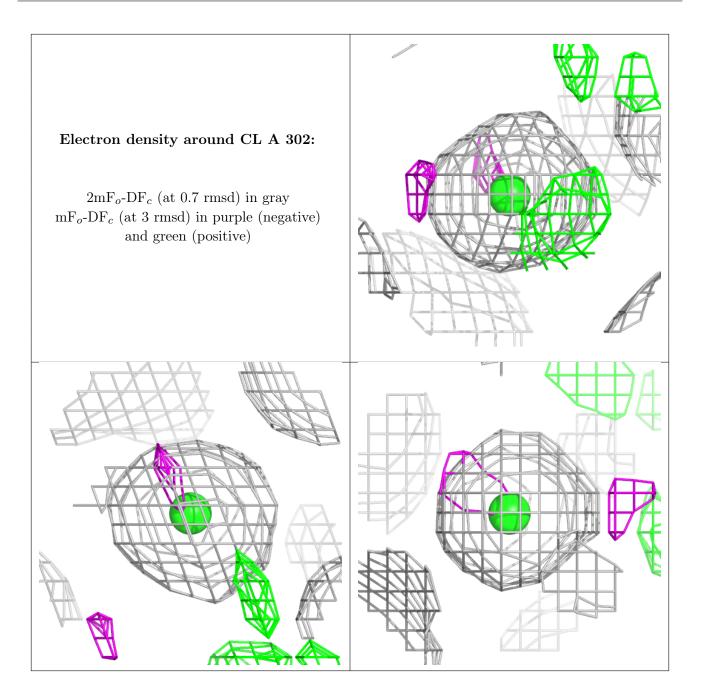












6.5 Other polymers (i)

There are no such residues in this entry.

