

Full wwPDB X-ray Structure Validation Report (i)

Sep 19, 2023 – 11:46 PM EDT

PDB ID	:	5JDL
Title	:	Structural mechanisms of extracellular ion exchange and induced binding-site
		occlusion in the sodium-calcium exchanger NCX_Mj soaked with 2.5 mM Na+ $$
		and $1 \mathrm{mM} \mathrm{Sr2}+$
Authors	:	Liao, J.; Jiang, Y.X.; Faraldo-Gomez, J.D.
Deposited on		
Resolution	:	2.90 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 (i)) were used in the production of this report:

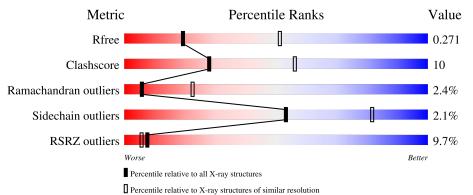
MolProbity		4 021 467
MOIFIODILY	•	4.020-407
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 2.90 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	1957 (2.90-2.90)
Clashscore	141614	2172 (2.90-2.90)
Ramachandran outliers	138981	2115 (2.90-2.90)
Sidechain outliers	138945	2117 (2.90-2.90)
RSRZ outliers	127900	1906 (2.90-2.90)

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		
			10%		
1	А	301	79%	18%	• ••

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	А	406	-	-	-	Х



5 JDL

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2387 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 Uncharacterized membrane protein MJ0091.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	А	299	Total 2249	C 1498	N 354	O 386	S 11	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	2	VAL	LEU	engineered mutation	UNP Q57556

• Molecule 2 is STRONTIUM ION (three-letter code: SR) (formula: Sr).

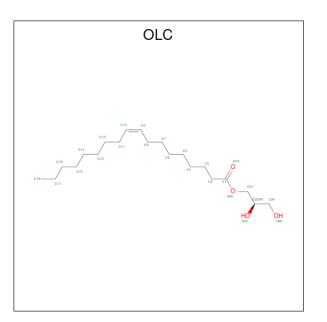
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	2	$\begin{array}{cc} \text{Total} & \text{Sr} \\ 2 & 2 \end{array}$	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Cl 1 1	0	0

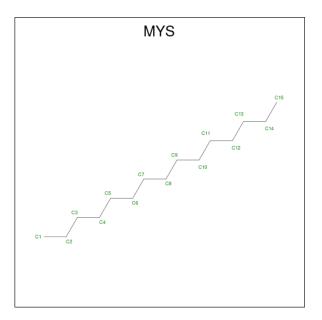
• Molecule 4 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLC) (formula: $C_{21}H_{40}O_4$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C O 22 18 4	0	0
4	А	1	Total C O 20 16 4	0	0
4	А	1	Total C O 25 21 4	0	0
4	А	1	Total C O 22 18 4	0	0

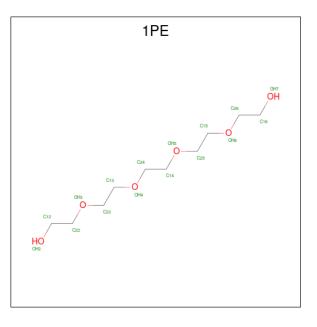
• Molecule 5 is PENTADECANE (three-letter code: MYS) (formula: $C_{15}H_{32}$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total C 9 9	0	0
5	А	1	Total C 12 12	0	0
5	А	1	$\begin{array}{cc} \text{Total} & \text{C} \\ 7 & 7 \end{array}$	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	А	1	Total 16	C 10	O 6	0	0

• Molecule 7 is water.

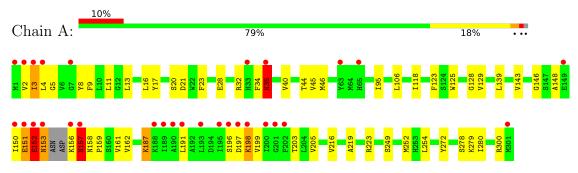
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	2	Total O 2 2	0	0



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: Uncharacterized membrane protein MJ0091





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	49.76Å 72.62Å 95.62Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.05 - 2.90	Depositor
Resolution (A)	41.05 - 2.90	EDS
% Data completeness	94.3 (41.05-2.90)	Depositor
(in resolution range)	88.1 (41.05-2.90)	EDS
R _{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.50 (at 2.90 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
D D.	0.224 , 0.272	Depositor
R, R_{free}	0.227 , 0.271	DCC
R_{free} test set	763 reflections (10.01%)	wwPDB-VP
Wilson B-factor $(Å^2)$	65.3	Xtriage
Anisotropy	0.440	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 50.5	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	0.92	EDS
Total number of atoms	2387	wwPDB-VP
Average B, all atoms $(Å^2)$	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.42% 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: SR, MYS, 1PE, OLC, CL

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
	Moi Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.28	0/2289	0.49	0/3109

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	А	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	А	151	GLU	Peptide
1	А	152	GLU	Peptide
1	А	34	PHE	Peptide

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	2249	0	2397	42	0
2	А	2	0	0	0	0
3	А	1	0	0	0	0
4	А	89	0	128	10	0
5	А	28	0	44	0	0
6	А	16	0	22	2	0
7	А	2	0	0	0	0
All	All	2387	0	2591	49	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 10.

All (49) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + 1	A + 0	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
4:A:406:OLC:H7	4:A:406:OLC:H11A	1.66	0.77
1:A:151:GLU:OE1	1:A:153:ASN:ND2	2.21	0.73
1:A:95:ILE:HG13	1:A:280:ILE:HB	1.74	0.70
1:A:40:VAL:HG21	1:A:146:GLY:HA3	1.78	0.64
1:A:159:PRO:HA	1:A:162:VAL:HG12	1.80	0.64
1:A:151:GLU:HB3	1:A:152:GLU:HA	1.81	0.63
4:A:406:OLC:H16	4:A:406:OLC:H12A	1.82	0.62
1:A:28:GLU:OE2	1:A:32:ARG:NH2	2.32	0.59
1:A:300:ARG:HG2	1:A:300:ARG:HH11	1.68	0.59
1:A:278:SER:OG	1:A:279:LYS:N	2.36	0.58
1:A:8:TYR:O	1:A:11:LEU:N	2.36	0.58
1:A:199:VAL:O	1:A:203:THR:OG1	2.18	0.57
1:A:21:ASP:OD1	1:A:223:ARG:NH1	2.38	0.56
1:A:35:ASN:OD1	1:A:35:ASN:N	2.33	0.56
1:A:35:ASN:ND2	1:A:150:ILE:HD13	2.20	0.56
4:A:404:OLC:C4	4:A:404:OLC:H21	2.37	0.54
1:A:3:ILE:O	1:A:4:LEU:HB2	2.08	0.54
1:A:197:ASP:O	1:A:199:VAL:N	2.40	0.54
1:A:148:ALA:HB3	1:A:150:ILE:HD11	1.89	0.53
1:A:151:GLU:HB3	1:A:152:GLU:CA	2.38	0.53
1:A:156:LYS:HG2	1:A:157:ASN:N	2.23	0.53
4:A:404:OLC:H21	4:A:404:OLC:H4	1.92	0.50
1:A:20:SER:HB2	1:A:216:VAL:HA	1.94	0.50
1:A:13:LEU:HD23	1:A:16:LEU:HD12	1.96	0.47
1:A:152:GLU:O	1:A:153:ASN:ND2	2.28	0.47
4:A:404:OLC:H11A	4:A:404:OLC:H8A	1.47	0.47
1:A:139:LEU:O	1:A:143:VAL:HG23	2.15	0.47

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		Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:A:219:ALA:HB2	6:A:411:1PE:H241	1.97	0.46
1:A:158:ASN:OD1	1:A:161:VAL:HG23	2.15	0.46
1:A:3:ILE:C	1:A:5:GLY:H	2.19	0.45
1:A:152:GLU:C	1:A:153:ASN:HD22	2.14	0.44
1:A:196:SER:O	1:A:197:ASP:HB2	2.17	0.44
1:A:123:PHE:HB2	1:A:254:LEU:HB2	1.99	0.44
1:A:300:ARG:HH11	1:A:300:ARG:CG	2.30	0.43
1:A:125:TRP:O	1:A:129:VAL:HG23	2.18	0.43
1:A:118:ILE:HA	4:A:404:OLC:H21A	2.01	0.43
1:A:151:GLU:CB	1:A:152:GLU:HA	2.48	0.43
4:A:407:OLC:H8A	4:A:407:OLC:H11	1.61	0.43
1:A:17:TYR:CE2	6:A:411:1PE:H232	2.54	0.42
1:A:44:THR:OG1	1:A:45:VAL:N	2.50	0.42
4:A:405:OLC:O19	4:A:405:OLC:H5A	2.19	0.42
1:A:197:ASP:OD1	1:A:198:LYS:HB2	2.19	0.42
1:A:125:TRP:HE1	4:A:407:OLC:C21	2.33	0.42
1:A:252:MET:HB2	1:A:252:MET:HE2	1.69	0.42
1:A:125:TRP:CE3	4:A:407:OLC:H9	2.54	0.42
1:A:23:PHE:HZ	1:A:46:MET:HA	1.83	0.41
1:A:106:LEU:HD13	1:A:272:TYR:CZ	2.56	0.41
1:A:187:LYS:O	1:A:191:LEU:HB2	2.20	0.41
1:A:128:GLY:HA3	1:A:249:SER:OG	2.21	0.40

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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	А	295/301~(98%)	270~(92%)	18 (6%)	7 (2%)	6 22

All (7) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	А	198	LYS
1	А	2	VAL
1	А	35	ASN
1	А	157	ASN
1	А	3	ILE
1	А	9	PHE
1	А	152	GLU

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	А	240/242~(99%)	235~(98%)	5(2%)	53 81

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	35	ASN
1	А	153	ASN
1	А	157	ASN
1	А	187	LYS
1	А	205	VAL

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

Mol	Chain	Res	Type
1	А	153	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 11 ligands modelled in this entry, 3 are monoatomic - leaving 8 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	Turne	Chain	ain Res Link		Bond lengths			Bond angles		
NIOI	Type	Unam	nes	nes Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
6	1PE	А	411	-	$15,\!15,\!15$	0.55	0	$14,\!14,\!14$	0.56	0
4	OLC	А	405	-	$19,\!19,\!24$	1.06	1 (5%)	20,20,25	0.80	0
5	MYS	А	408	-	8,8,14	0.37	0	7,7,13	0.70	0
5	MYS	А	409	-	$11,\!11,\!14$	0.39	0	$10,\!10,\!13$	0.81	0
4	OLC	А	407	-	21,21,24	1.02	1 (4%)	$22,\!22,\!25$	0.81	0
4	OLC	А	404	2	21,21,24	1.03	1 (4%)	22,22,25	0.91	0
4	OLC	А	406	-	24,24,24	1.06	1 (4%)	25,25,25	0.76	0
5	MYS	А	410	-	$6,\!6,\!14$	0.34	0	$5,\!5,\!13$	0.67	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
6	1PE	А	411	-	-	4/13/13/13	-
4	OLC	А	405	-	-	4/19/19/24	-
5	MYS	А	408	-	-	0/6/6/12	-
5	MYS	А	409	-	-	0/9/9/12	-
4	OLC	А	407	-	-	1/21/21/24	-
4	OLC	А	404	2	-	3/21/21/24	-
4	OLC	А	406	-	-	3/24/24/24	-
5	MYS	А	410	-	-	0/4/4/12	-

All (4) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
4	А	406	OLC	C9-C10	4.07	1.55	1.31
4	А	407	OLC	C9-C10	3.92	1.54	1.31
4	А	405	OLC	C9-C10	3.84	1.54	1.31
4	А	404	OLC	C9-C10	3.81	1.53	1.31

There are no bond angle outliers.

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	404	OLC	O19-C1-O20-C21
4	А	406	OLC	O19-C1-O20-C21
4	А	404	OLC	C2-C1-O20-C21
4	А	406	OLC	C2-C1-O20-C21
4	А	406	OLC	C7-C8-C9-C10
6	А	411	1PE	С16-С26-ОН6-С15
6	А	411	1PE	C23-C13-OH4-C24
4	А	405	OLC	C7-C8-C9-C10
4	А	407	OLC	C9-C10-C11-C12
4	А	405	OLC	O20-C1-C2-C3
6	А	411	1PE	С14-С24-ОН4-С13
4	А	405	OLC	C9-C10-C11-C12
4	А	405	OLC	O19-C1-C2-C3
6	А	411	1PE	С13-С23-ОН3-С22
4	А	404	OLC	O20-C1-C2-C3

There are no ring outliers.

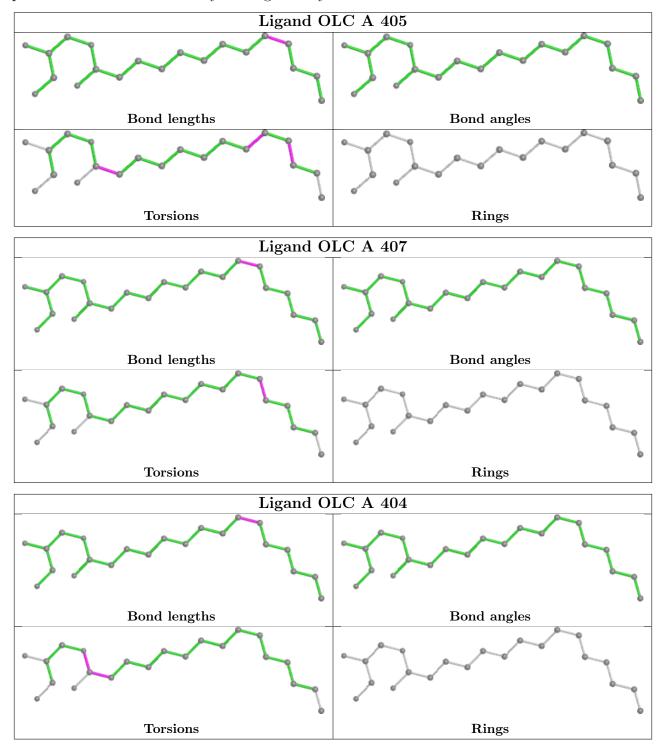
5 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	А	411	1PE	2	0
4	А	405	OLC	1	0
4	А	407	OLC	3	0
4	А	404	OLC	4	0
4	А	406	OLC	2	0

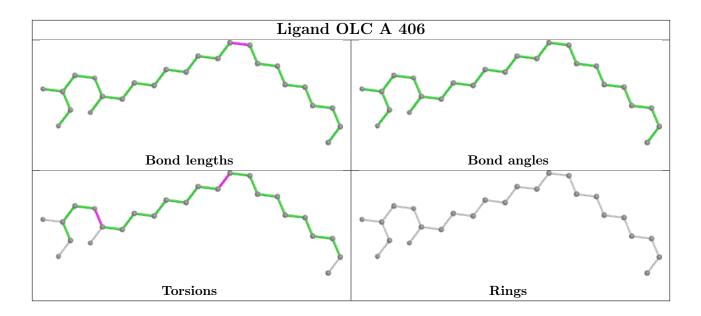
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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







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	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q<0.9
1	А	299/301~(99%)	0.22	29 (9%) 7 6	45, 61, 107, 125	2(0%)

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	4	LEU	5.8
1	А	153	ASN	5.2
1	А	157	ASN	5.2
1	А	152	GLU	4.8
1	А	149	GLU	4.6
1	А	193	LEU	4.6
1	А	1	MET	4.2
1	А	151	GLU	3.6
1	А	150	ILE	3.6
1	А	33	HIS	3.6
1	А	301	MET	3.4
1	А	198	LYS	3.4
1	А	197	ASP	3.4
1	А	35	ASN	3.4
1	А	201	GLY	3.3
1	А	156	LYS	3.1
1	А	191	LEU	3.1
1	А	2	VAL	3.1
1	А	7	GLY	3.1
1	А	65	HIS	3.0
1	А	3	ILE	3.0
1	А	196	SER	2.9
1	А	195	ILE	2.8
1	А	200	ILE	2.7
1	А	63	TYR	2.6
1	А	202	PHE	2.4
1	А	190	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	А	189	ILE	2.2
1	А	188	LYS	2.2

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.

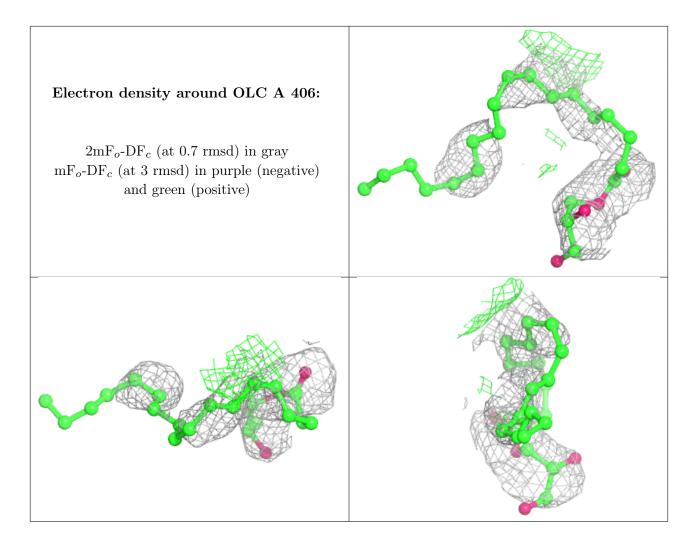
6.4 Ligands (i)

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.

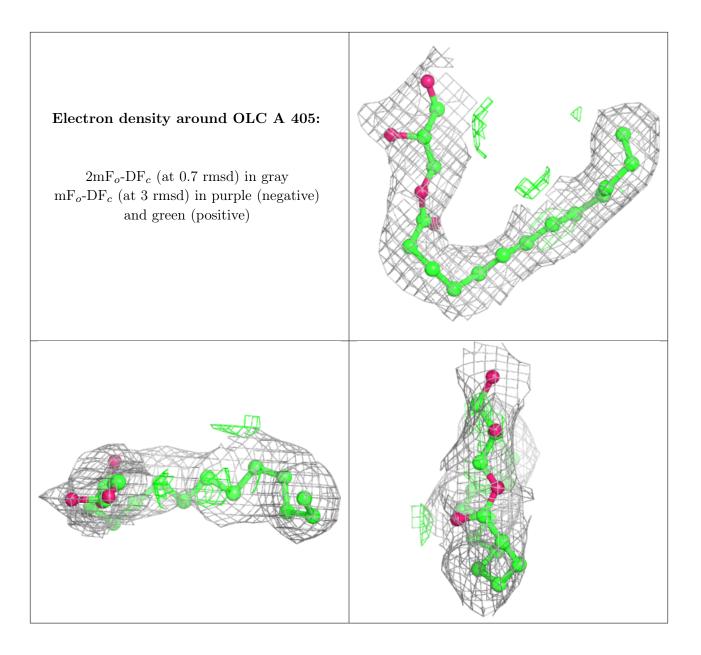
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
4	OLC	А	406	25/25	0.60	0.54	84,105,117,121	0
4	OLC	А	405	20/25	0.63	0.30	66,93,108,110	0
5	MYS	А	409	12/15	0.65	0.29	75,93,99,99	0
4	OLC	А	407	22/25	0.70	0.36	$50,\!66,\!86,\!103$	0
4	OLC	А	404	22/25	0.75	0.30	72,81,97,98	0
6	1PE	А	411	16/16	0.79	0.28	$63,\!78,\!92,\!95$	0
5	MYS	А	410	7/15	0.86	0.22	62,64,70,70	0
5	MYS	А	408	9/15	0.88	0.29	64,70,78,79	0
3	CL	А	403	1/1	0.88	0.21	69,69,69,69	0
2	SR	А	402	1/1	0.91	0.12	68,68,68,68	1
2	SR	А	401	1/1	0.93	0.07	73,73,73,73	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.

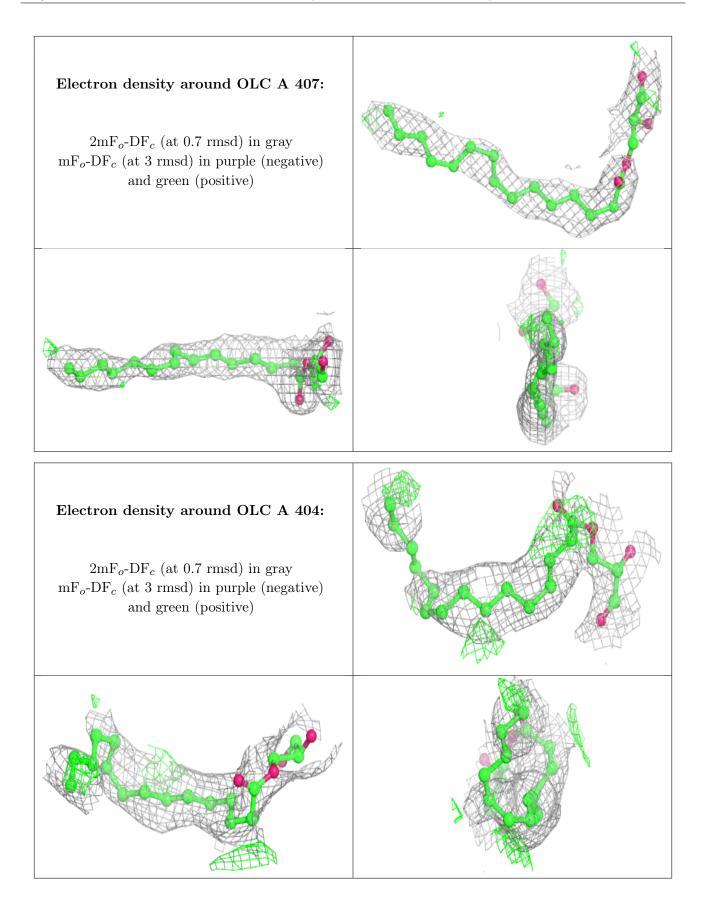














6.5 Other polymers (i)

There are no such residues in this entry.

