

Full wwPDB X-ray Structure Validation Report (i)

May 14, 2020 – 12:45 pm BST

PDB ID	:	5NLX
Title	:	A2A Adenosine receptor room-temperature structure determined by serial mil-
		lisecond crystallography
Authors	:	Weinert, T.; Cheng, R.; James, D.; Gashi, D.; Nogly, P.; Jaeger, K.; Dore,
		A.S.; Geng, T.; Cooke, R.; Hennig, M.; Standfuss, J.
Deposited on	:	2017-04-05
Resolution	:	2.14 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 following versions of software and data (see references (1)) were used in the production of this report:

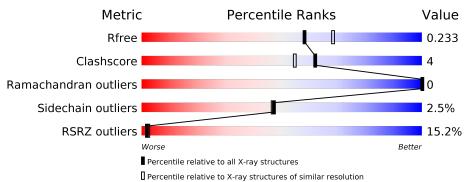
MolProbity Mogul Xtriage (Phenix) EDS buster-report	:	2.11
Percentile statistics		
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.14 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	$egin{array}{c} {f Whole archive}\ (\#{f Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	2523 (2.16-2.12)
Clashscore	141614	2653 (2.16-2.12)
Ramachandran outliers	138981	2618 (2.16-2.12)
Sidechain outliers	138945	2617 (2.16-2.12)
RSRZ outliers	127900	2485 (2.16-2.12)

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 on 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		
			13%		
1	А	433	77%	11%	12%

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	CLR	А	506	-	-	-	Х



5NLX

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 6242 atoms, of which 3152 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 Adenosine receptor A2a,Soluble cytochrome b562,Adenosine receptor A2a.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	А	382	Total 5809	C 1906	Н 2915	N 471	O 496	S 21	0	10	0

Chain	Residue	Modelled	Actual	Comment	Reference
А	1	ASP	_	expression tag	UNP P29274
А	2	TYR	-	expression tag	UNP P29274
А	3	LYS	-	expression tag	UNP P29274
А	4	ASP	-	expression tag	UNP P29274
А	5	ASP	-	expression tag	UNP P29274
А	6	ASP	-	expression tag	UNP P29274
А	7	ASP	-	expression tag	UNP P29274
А	8	GLY	-	expression tag	UNP P29274
А	9	ALA	-	expression tag	UNP P29274
А	10	PRO	-	expression tag	UNP P29274
А	63	LEU	ALA	engineered mutation	UNP P29274
А	97	ALA	THR	engineered mutation	UNP P29274
А	116	ALA	ARG	engineered mutation	UNP P29274
А	131	ALA	LYS	engineered mutation	UNP P29274
А	163	ALA	ASN	engineered mutation	UNP P29274
А	211	ALA	LEU	engineered mutation	UNP P29274
А	224	TRP	MET	$\operatorname{conflict}$	UNP P0ABE7
А	319	ILE	HIS	$\operatorname{conflict}$	UNP P0ABE7
А	323	LEU	-	linker	UNP P0ABE7
А	340	ALA	LEU	engineered mutation	UNP P29274
А	344	ALA	VAL	engineered mutation	UNP P29274
А	382	ALA	SER	engineered mutation	UNP P29274
А	423	ALA	-	expression tag	UNP P29274
А	424	HIS	-	expression tag	UNP P29274
А	425	HIS	-	expression tag	UNP P29274
А	426	HIS	-	expression tag	UNP P29274

There are 33 discrepancies between the modelled and reference sequences:

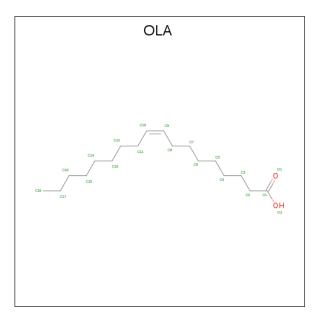
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Chain	Residue	Modelled	Actual	Comment	Reference
A	427	HIS	-	expression tag	UNP P29274
A	428	HIS	-	expression tag	UNP P29274
A	429	HIS	-	expression tag	UNP P29274
A	430	HIS	-	expression tag	UNP P29274
A	431	HIS	-	expression tag	UNP P29274
A	432	HIS	-	expression tag	UNP P29274
А	433	HIS	-	expression tag	UNP P29274

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• Molecule 2 is OLEIC ACID (three-letter code: OLA) (formula: $C_{18}H_{34}O_2$).



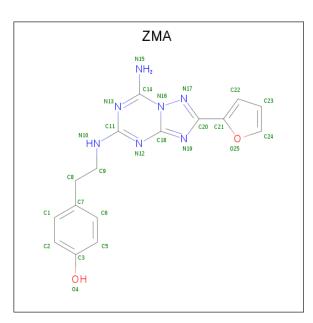
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Λ	1	Total	С	Η	Ο	0	0	
	Л	I	53	18	33	2	0		
2	Λ	1	Total	С	Η	Ο	0	0	
	Л	I	53	18	33	2	0		
2	Λ	1	Total	С	Η	Ο	0	0	
	A	A I	31	11	18	2	0	U	

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

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

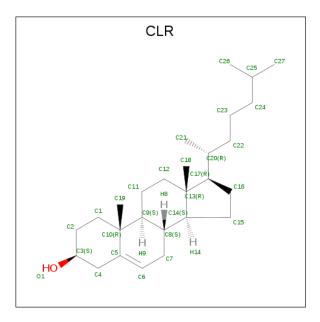
• Molecule 4 is 4-{2-[(7-amino-2-furan-2-yl[1,2,4]triazolo[1,5-a][1,3,5]triazin-5-yl)amino]ethyl} phenol (three-letter code: ZMA) (formula: $C_{16}H_{15}N_7O_2$).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	Δ	1	Total	С	Η	Ν	0	0	0
4	А	L	40	16	15	7	2	0	0

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
5	Δ	1	Total	С	Η	Ο	0	0	
0	A		74	27	46	1	0	0	
5	Λ	1	Total	С	Η	Ο	0	0	
	Л	T	74	27	46	1	0		
5	Δ	1	Total	С	Η	Ο	0	0	
5	А	4 1	74	27	46	1	0	0	



• Molecule 6 is water.

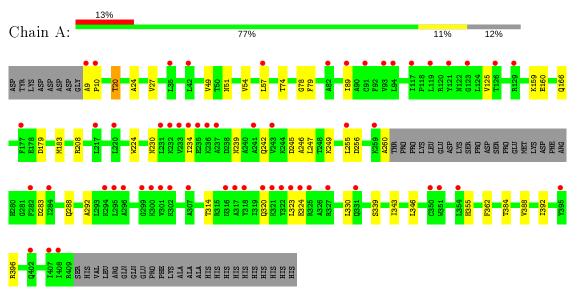
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	33	Total O 33 33	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Adenosine receptor A2a,Soluble cytochrome b562,Adenosine receptor A2a





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	40.33Å 180.07 Å 142.66 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.46 - 2.14	Depositor
Resolution (A)	34.46 - 2.14	EDS
% Data completeness	99.5 (34.46-2.14)	Depositor
(in resolution range)	99.5(34.46-2.14)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.31 (at 2.14 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
D D .	0.199 , 0.229	Depositor
R, R_{free}	0.200 , 0.233	DCC
R_{free} test set	1430 reflections (4.90%)	wwPDB-VP
Wilson B-factor $(Å^2)$	45.5	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.34 , 83.5	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6242	wwPDB-VP
Average B, all atoms $(Å^2)$	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.31% 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: OLA, ZMA, CLR, NA

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	Bo	nd angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.63	0/2988	0.66	1/4089~(0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	57	LEU	CA-CB-CG	5.46	127.86	115.30

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	2894	2915	2913	26	0
2	А	53	84	82	1	0
3	А	1	0	0	0	0
4	А	25	15	15	1	0
5	А	84	138	138	3	0
6	А	33	0	0	0	0
All	All	3090	3152	3148	27	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 4.



Atom 1	Atom 9	Interatomic	Clash
Atom-1	Atom-2	${ m distance}~({ m \AA})$	overlap (Å)
1:A:51:ASN:HA	1:A:54[B]:VAL:HG13	1.82	0.61
1:A:78:GLY:O	1:A:166[A]:GLN:NE2	2.32	0.60
1:A:159:LYS:NZ	1:A:179:ASP:OD1	2.29	0.59
1:A:346:LEU:HD13	1:A:388[B]:VAL:HG11	1.88	0.55
2:A:503:OLA:H22	5:A:506:CLR:H22	1.89	0.54
1:A:89[A]:ILE:HD11	5:A:506:CLR:H71	1.90	0.54
1:A:355:HIS:CE1	4:A:505:ZMA:H24	2.43	0.54
1:A:320:GLN:NE2	1:A:324:GLU:OE2	2.43	0.51
1:A:239:ASN:N	1:A:242:GLN:OE1	2.39	0.50
1:A:24:ALA:O	1:A:27[B]:VAL:HG22	2.11	0.50
1:A:89[A]:ILE:HD11	5:A:506:CLR:C7	2.42	0.49
1:A:288:GLN:OE1	1:A:314:THR:HG21	2.14	0.48
1:A:343:ILE:HD11	1:A:392:ILE:HB	1.94	0.48
1:A:224:TRP:CH2	1:A:320:GLN:OE1	2.67	0.47
1:A:339:SER:OG	1:A:396:ARG:HD3	2.14	0.47
1:A:245:ASP:OD1	1:A:249:LYS:HE2	2.17	0.44
1:A:256:ASP:O	1:A:260:ALA:N	2.49	0.44
1:A:9:ALA:N	1:A:10:PRO:CD	2.82	0.43
1:A:230:ASN:O	1:A:234:ILE:HG12	2.19	0.43
1:A:183:MET:HG3	1:A:362:PHE:HB2	2.01	0.43
1:A:74:THR:HG22	1:A:79:PHE:CE1	2.55	0.41
1:A:247:LEU:HD21	1:A:292:ALA:HB3	2.01	0.41
1:A:234:ILE:CD1	1:A:246:ALA:HB3	2.51	0.41
1:A:49:VAL:HG11	1:A:125:VAL:CG1	2.51	0.40

All (27) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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	388/433~(90%)	375~(97%)	13 (3%)	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	А	292/353~(83%)	284~(97%)	8 (3%)	44 43	

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	20[A]	THR
1	А	20[B]	THR
1	А	160	GLU
1	А	208	ARG
1	А	255	LEU
1	А	283	ASP
1	А	323	LEU
1	А	330	LEU

Some 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 carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 1 is monoatomic - leaving 7 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	Tune	Chain	Res	Link	Bo	ond leng	\mathbf{ths}	Bond angles		
	Type	Cham	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	ZMA	А	505	-	21,28,28	0.88	1 (4%)	$22,\!39,\!39$	1.79	<mark>6 (27%)</mark>
5	CLR	А	508	-	31,31,31	0.20	0	48,48,48	0.32	0
2	OLA	А	502	-	16, 19, 19	0.56	0	$15,\!19,\!19$	0.77	0
5	CLR	А	506	-	$31,\!31,\!31$	0.33	0	$48,\!48,\!48$	0.72	0
2	OLA	А	503	-	9,12,19	0.68	0	8,12,19	1.04	0
2	OLA	А	501	-	16, 19, 19	0.45	0	$15,\!19,\!19$	0.98	0
5	CLR	А	507	-	31,31,31	0.21	0	48,48,48	0.36	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
4	ZMA	А	505	-	-	0/6/10/10	0/4/4/4
5	CLR	А	508	-	-	0/10/68/68	0/4/4/4
2	OLA	А	502	-	-	8/15/17/17	-
5	CLR	А	506	-	-	3/10/68/68	0/4/4/4
2	OLA	А	503	-	-	3/8/10/17	-
2	OLA	А	501	-	-	3/15/17/17	-
5	CLR	А	507	-	-	0/10/68/68	0/4/4/4

All (1) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
4	А	505	ZMA	C11-N10	-2.04	1.31	1.34

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	А	505	ZMA	N15-C14-N16	4.81	121.21	117.97
4	А	505	ZMA	N15-C14-N13	3.25	121.30	117.03
4	А	505	ZMA	C21-C20-N19	-3.02	119.75	123.61
4	А	505	ZMA	N10-C11-N12	-2.94	112.10	117.19
4	А	505	ZMA	N17-C20-N19	2.71	116.35	114.56
4	А	505	ZMA	N10-C11-N13	2.01	120.66	117.19

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	502	OLA	C1-C2-C3-C4
2	А	502	OLA	C2-C3-C4-C5
2	А	501	OLA	C6-C7-C8-C9
2	А	502	OLA	C10-C11-C12-C13
2	А	502	OLA	C6-C7-C8-C9
2	А	503	OLA	C2-C3-C4-C5
5	А	506	CLR	C20-C22-C23-C24
2	А	502	OLA	C5-C6-C7-C8
5	А	506	CLR	C17-C20-C22-C23
5	А	506	CLR	C22-C23-C24-C25
2	А	502	OLA	C9-C10-C11-C12
2	А	501	OLA	C9-C10-C11-C12
2	А	502	OLA	C7-C8-C9-C10
2	А	503	OLA	C7-C8-C9-C10
2	А	501	OLA	C7-C8-C9-C10
2	А	503	OLA	C3-C4-C5-C6
2	А	502	OLA	C13-C14-C15-C16

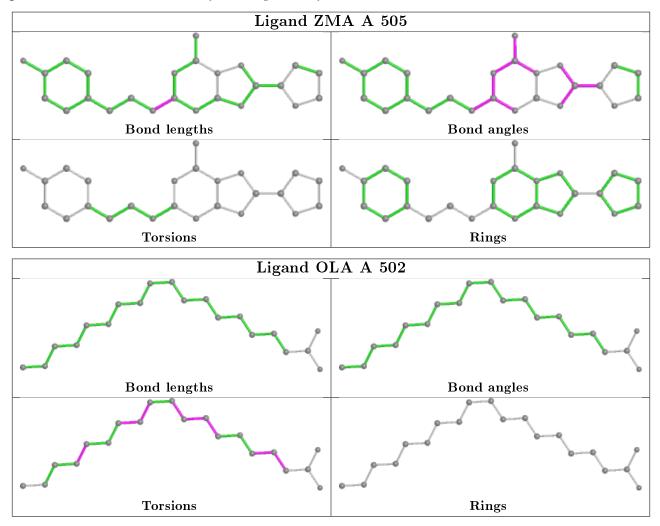
There are no ring outliers.

3 monomers are involved in 4 short contacts:

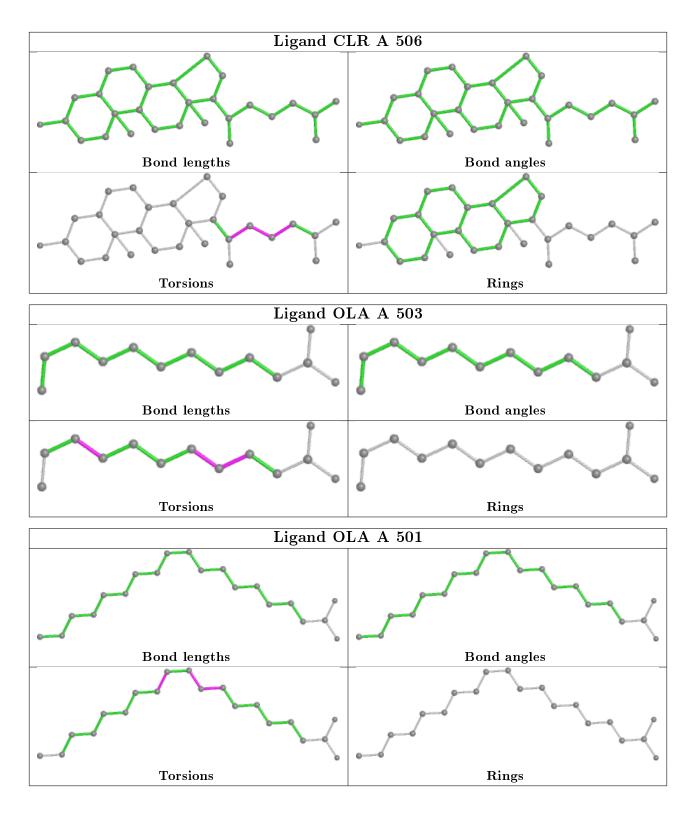
Mol	Chain	\mathbf{Res}	Type	Clashes	Symm-Clashes
4	А	505	ZMA	1	0
5	А	506	CLR	3	0
2	А	503	OLA	1	0



The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	$ $ $<$ $\mathbf{RSRZ}>$	#RSRZ>2	$\mathbf{OWAB}(\mathbf{\AA}^2)$	$Q{<}0.9$
1	А	382/433~(88%)	0.95	58 (15%) 2 2	31, 56, 132, 176	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	318	TYR	7.4
1	А	395	TYR	5.6
1	А	300	LYS	5.6
1	А	234	ILE	5.6
1	А	317	ALA	5.2
1	А	325	ARG	5.2
1	А	117	ILE	4.8
1	А	119	LEU	4.6
1	А	296	ALA	4.6
1	А	243	VAL	4.5
1	А	237	ALA	4.3
1	А	220	LEU	4.3
1	А	233	VAL	4.3
1	А	321	LYS	4.2
1	А	407	ILE	4.2
1	А	236	LYS	4.1
1	А	324	GLU	4.1
1	А	299	GLY	4.0
1	А	327	ARG	3.8
1	А	231	LEU	3.8
1	А	322	TYR	3.7
1	А	259	LYS	3.6
1	А	93	VAL	3.6
1	А	9	ALA	3.4
1	А	129	ARG	3.4
1	А	42	LEU	3.2
1	А	295	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	А	331	GLN	3.1
1	А	316	ASN	3.0
1	А	217	LEU	3.0
1	А	408	ILE	2.9
1	А	323	LEU	2.9
1	А	301	VAL	2.8
1	А	282	PHE	2.8
1	А	10	PRO	2.7
1	А	126	THR	2.7
1	А	232	LYS	2.7
1	А	320	GLN	2.7
1	А	351	TRP	2.7
1	А	35	LEU	2.7
1	А	294	LYS	2.7
1	А	82	ALA	2.7
1	А	94	LEU	2.7
1	А	123	GLY	2.5
1	А	57	LEU	2.5
1	А	284	ILE	2.5
1	А	177	PHE	2.5
1	А	350	CYS	2.4
1	А	255	LEU	2.3
1	А	235	GLU	2.3
1	А	241	ALA	2.3
1	А	354	LEU	2.2
1	А	121	TYR	2.1
1	А	89[A]	ILE	2.0
1	А	402	GLN	2.0
1	А	91	CYS	2.0
1	А	307	ALA	2.0
1	А	302	LYS	2.0

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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 carbohydrates in this entry.

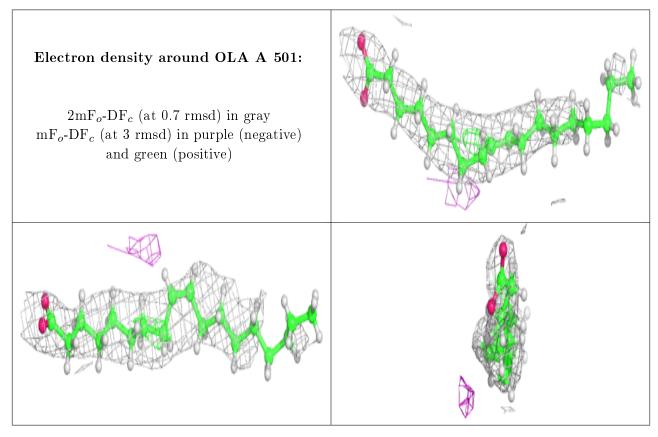


6.4 Ligands (i)

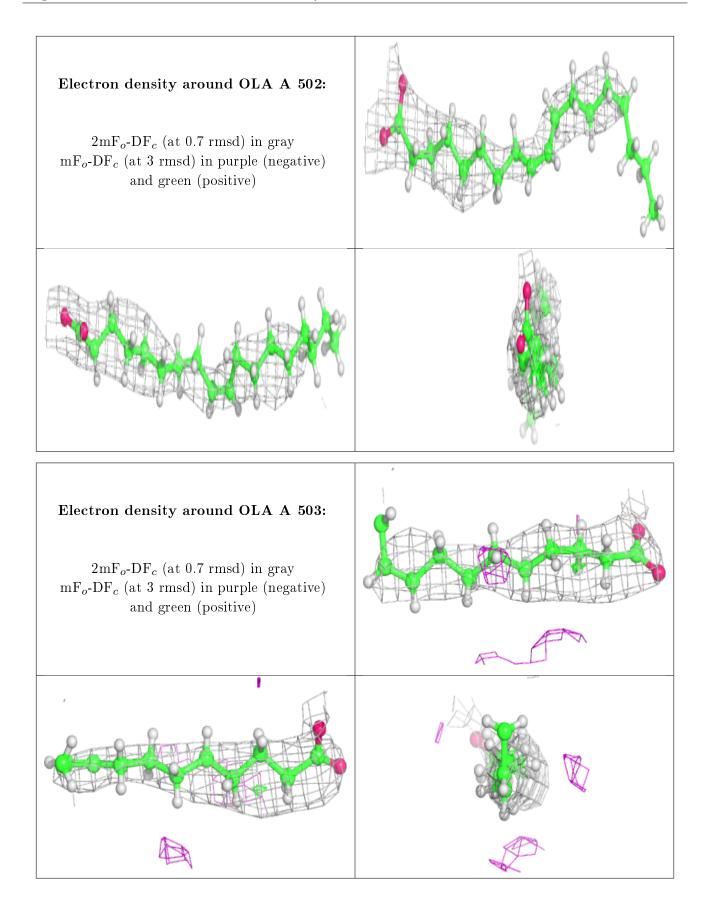
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
2	OLA	А	501	20/20	0.63	0.27	$95,\!114,\!135,\!136$	0
2	OLA	А	502	20/20	0.71	0.33	$107,\!128,\!135,\!136$	0
2	OLA	А	503	13/20	0.73	0.29	$101,\!121,\!126,\!127$	0
5	CLR	A	506	28/28	0.77	0.41	$100,\!122,\!128,\!131$	0
5	CLR	А	507	28/28	0.89	0.29	87,111,125,125	0
5	CLR	А	508	28/28	0.92	0.23	$70,\!87,\!100,\!100$	0
4	ZMA	А	505	25/25	0.95	0.25	24,39,73,80	0
3	NA	А	504	1/1	0.98	0.17	53, 53, 53, 53	0

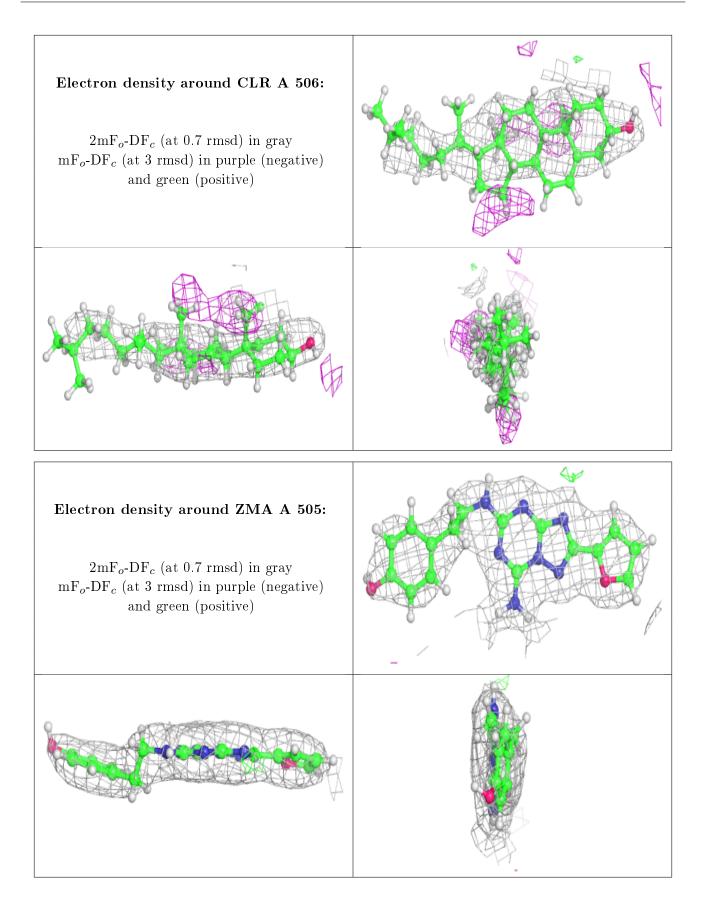
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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













6.5 Other polymers (i)

There are no such residues in this entry.

