

Full wwPDB X-ray Structure Validation Report (i)

Mar 18, 2024 – 02:09 PM JST

PDB ID	:	8JC5
Title	:	Crystal structure of PLEKHM1 RUN domain in complex with GTP-bound
		Arl8b(Q75L)
Authors	:	Qiu, X.H.; Pan, L.F.
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:

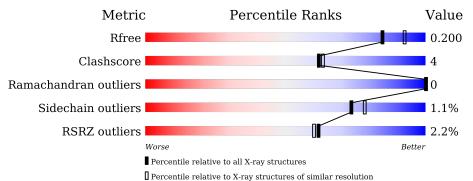
MolProbity Mogul Xtriage (Phenix) EDS	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.36
buster-report Percentile statistics Refmac	: : :	1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
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	169	% 8 9%	8%	•••
1	В	169	.% 86%	11%	•
2	С	196	87%	13%	•
2	D	196	4% 94%	(6% •



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 6083 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.

Mol	Chain	Residues		\mathbf{A}	toms			ZeroOcc	AltConf	Trace
1	Δ	164	Total	С	Ν	0	S	0	2	0
1	A	104	1325	834	229	252	10	0	2	0
1	р	164	Total	С	Ν	0	S	0	0	0
L	Б	164	1914	020	226	9.4C	10	0		0

226

246

10

• Molecule 1 is a protein called ADP-ribosylation factor-like protein 8B.

1314

There are 2 discrepancies between the modelled and reference sequences:

832

Chain	Residue	Modelled	Actual	Comment	Reference
А	75	LEU	GLN	engineered mutation	UNP Q9NVJ2
В	75	LEU	GLN	engineered mutation	UNP Q9NVJ2

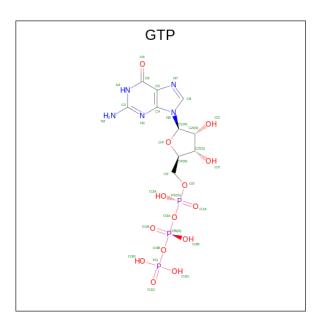
• Molecule 2 is a protein called Pleckstrin homology domain-containing family M member 1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	С	196	1000	C 997	N 267	O 281	S 6	0	2	0
2	D	196	Total 1539	C 990		0 282	${ m S}{ m 6}$	0	2	0

• Molecule 3 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$) (labeled as "Ligand of Interest" by depositor).







Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf
9	۸	1	Total	С	Ν	Ο	Р	0	0
0	A	1	32	10	5	14	3	0	0
2	р	1	Total	С	Ν	Ο	Р	0	0
3	D	1	32	10	5	14	3	0	U

• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Mg 1 1	0	0
4	В	1	Total Mg 1 1	0	0

• Molecule 5 is water.

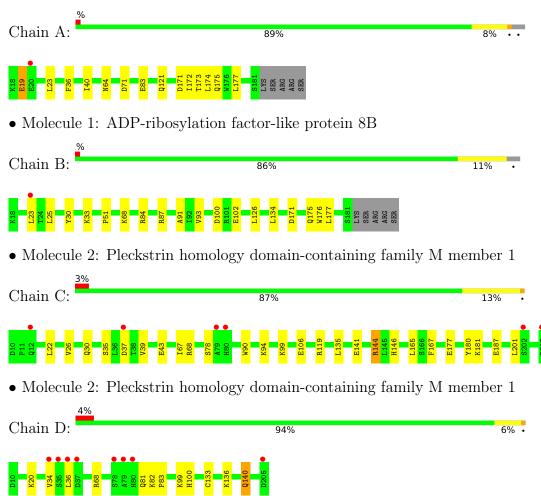
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	79	Total O 79 79	0	0
5	В	55	Total O 55 55	0	0
5	С	64	Total O 64 64	0	0
5	D	90	Total O 90 90	0	0



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: ADP-ribosylation factor-like protein 8B





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	80.98Å 73.82Å 91.96Å	Depositor
a, b, c, α , β , γ	90.00° 114.18° 90.00°	Depositor
Resolution (Å)	46.75 - 2.01	Depositor
Resolution (A)	83.89 - 2.01	EDS
% Data completeness	96.9(46.75-2.01)	Depositor
(in resolution range)	96.9(83.89-2.01)	EDS
R _{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.24 (at 2.02 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.17.1_3660, PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.167 , 0.201	Depositor
II, II, <i>free</i>	0.167 , 0.200	DCC
R_{free} test set	3161 reflections $(4.95%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	39.2	Xtriage
Anisotropy	0.293	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 53.0	EDS
L-test for $twinning^2$	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.022 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6083	wwPDB-VP
Average B, all atoms $(Å^2)$	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.36% 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: MG, GTP

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).

Mal	Mol Chain		nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.52	0/1345	0.62	0/1814	
1	В	0.50	0/1340	0.66	1/1809~(0.1%)	
2	С	0.49	0/1591	0.59	0/2158	
2	D	0.54	1/1579~(0.1%)	0.60	0/2145	
All	All	0.51	1/5855~(0.0%)	0.62	1/7926~(0.0%)	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	133	CYS	CB-SG	-7.00	1.70	1.82

All (1) bond angle outliers are listed below:

[Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
	1	В	30	TYR	C-N-CA	-6.04	106.59	121.70

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	1325	0	1329	12	0
1	В	1314	0	1331	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	С	1551	0	1584	18	0
2	D	1539	0	1557	12	0
3	А	32	0	12	0	0
3	В	32	0	12	0	0
4	А	1	0	0	0	0
4	В	1	0	0	0	0
5	А	79	0	0	3	0
5	В	55	0	0	2	0
5	С	64	0	0	3	0
5	D	90	0	0	4	0
All	All	6083	0	5825	51	0

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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.

All (51) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
2:C:106:GLU:OE2	5:C:301:HOH:O	1.88	0.92
2:C:26:VAL:O	2:C:30:GLN:HG2	1.89	0.73
2:D:68:ARG:NH2	5:D:301:HOH:O	1.97	0.72
2:C:141:GLU:OE2	2:C:144:ARG:HD2	1.90	0.71
1:A:71:ASP:OD1	5:A:301:HOH:O	2.15	0.64
1:A:19:GLU:HB2	1:A:64:ASN:O	1.98	0.63
2:D:99:LYS:NZ	5:D:304:HOH:O	2.31	0.63
2:C:119:ARG:NH1	2:C:187:GLU:O	2.31	0.63
1:A:171:ASP:O	1:A:175:GLN:HG3	1.99	0.62
2:C:43:GLU:OE1	5:C:302:HOH:O	2.16	0.62
1:A:171:ASP:OD2	5:A:302:HOH:O	2.16	0.61
2:C:35:SER:OG	2:C:37:ASP:HB2	2.01	0.61
2:C:67:ILE:HD11	5:C:329:HOH:O	2.02	0.60
2:D:82:LYS:NZ	5:D:305:HOH:O	2.35	0.59
1:B:68:LYS:NZ	5:B:302:HOH:O	2.36	0.58
1:B:171:ASP:O	1:B:175:GLN:HG3	2.03	0.58
5:B:304:HOH:O	2:D:99:LYS:HG2	2.02	0.58
1:A:171:ASP:OD1	1:A:172:ILE:N	2.38	0.56
1:B:87:ARG:HH11	2:D:100[A]:HIS:CD2	2.24	0.55
1:B:23[A]:LEU:HD11	1:B:177:LEU:HD13	1.89	0.53
2:C:144:ARG:HH11	2:C:144:ARG:HB3	1.74	0.53
2:C:201:LEU:H	2:C:201:LEU:HD12	1.74	0.52
2:C:39:VAL:CG2	2:C:177:GLU:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic	Clash
	Atom-2	distance (\AA)	overlap (Å)
1:A:83:GLU:HG2	5:A:328:HOH:O	2.11	0.50
1:A:171:ASP:OD1	1:A:172:ILE:HG23	2.12	0.50
2:C:22:LEU:HD22	2:C:167:PHE:CE2	2.47	0.50
1:B:84:ARG:HB3	2:D:100[B]:HIS:CE1	2.47	0.49
2:D:20:LYS:NZ	5:D:302:HOH:O	2.21	0.49
2:D:81:GLN:O	2:D:83:PRO:HD3	2.12	0.49
1:B:25[B]:LEU:HD22	1:B:33:LYS:HG2	1.94	0.48
2:C:39:VAL:HG22	2:C:177:GLU:HB2	1.96	0.47
2:C:135:LEU:HD23	2:C:165:LEU:HD23	1.96	0.47
2:D:34:VAL:HA	2:D:36:LEU:HG	1.96	0.47
2:D:68:ARG:HA	2:D:68:ARG:HD3	1.76	0.46
2:C:26:VAL:HG21	2:C:167:PHE:CZ	2.52	0.45
2:D:136:LYS:O	2:D:140[A]:GLN:NE2	2.46	0.45
2:C:22:LEU:HD22	2:C:167:PHE:HE2	1.81	0.44
2:C:180:TYR:CZ	2:C:181:LYS:HE3	2.53	0.44
1:B:84:ARG:HB3	2:D:100[B]:HIS:NE2	2.33	0.44
2:C:90:TRP:NE1	2:C:94:LYS:HD2	2.33	0.43
1:B:23[B]:LEU:HD11	1:B:93:VAL:HG23	1.99	0.43
1:B:134:LEU:HD23	1:B:134:LEU:HA	1.80	0.43
1:A:40:ILE:HD12	1:A:174:LEU:HD11	2.01	0.43
1:B:100:ASP:OD1	1:B:102:GLU:HG3	2.20	0.42
1:A:174:LEU:HD23	1:A:174:LEU:HA	1.93	0.42
1:B:51:PRO:HG2	2:C:68[A]:ARG:HH12	1.85	0.41
1:A:172:ILE:HG13	1:A:173:THR:N	2.34	0.41
1:A:23:LEU:HD13	1:A:177:LEU:HD13	2.03	0.41
1:B:23[A]:LEU:CD2	1:B:91:ALA:HB3	2.50	0.41
1:A:36:PHE:O	1:A:40:ILE:HG12	2.21	0.40
1:B:126:LEU:HB2	1:B:176:TRP:CZ3	2.56	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	Perce	ntiles
1	А	164/169~(97%)	160~(98%)	4 (2%)	0	100	100
1	В	164/169~(97%)	158 (96%)	6 (4%)	0	100	100
2	С	196/196~(100%)	192 (98%)	4 (2%)	0	100	100
2	D	196/196~(100%)	187~(95%)	9~(5%)	0	100	100
All	All	720/730~(99%)	697~(97%)	23~(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 side chain 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	148/152~(97%)	146~(99%)	2(1%)	67 72		
1	В	147/152~(97%)	147 (100%)	0	100 100		
2	С	169/168~(101%)	165~(98%)	4 (2%)	49 51		
2	D	167/168~(99%)	165~(99%)	2(1%)	71 76		
All	All	631/640~(99%)	623~(99%)	8 (1%)	73 74		

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

Mol	Chain	Res	Type
1	А	19	GLU
1	А	121	GLN
2	С	78	SER
2	С	99	LYS
2	С	144	ARG
2	С	146	HIS
2	D	140[A]	GLN
2	D	140[B]	GLN

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such side chains are listed below:



Mol	Chain	Res	Type
1	А	44	GLN
1	А	121	GLN
1	А	175	GLN

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 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	Mol Type Chain Res Lini		Link	Bond lengths			Bond angles			
	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	GTP	А	201	4	26,34,34	1.10	2 (7%)	$32,\!54,\!54$	1.40	6 (18%)
3	GTP	В	201	4	26,34,34	1.49	3 (11%)	32,54,54	1.64	6 (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
3	GTP	А	201	4	-	1/18/38/38	0/3/3/3
3	GTP	В	201	4	-	2/18/38/38	0/3/3/3



Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
3	В	201	GTP	PB-O1B	4.81	1.68	1.50
3	В	201	GTP	C5-C6	-3.61	1.40	1.47
3	А	201	GTP	C5-C6	-3.56	1.40	1.47
3	В	201	GTP	C2-N3	2.40	1.39	1.33
3	А	201	GTP	C2-N3	2.06	1.38	1.33

All (5) bond length outliers are listed below:

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	В	201	GTP	O2B-PB-O1B	6.40	143.88	112.24
3	В	201	GTP	C8-N7-C5	3.11	108.92	102.99
3	А	201	GTP	C5-C6-N1	3.03	119.30	113.95
3	А	201	GTP	PB-O3B-PG	-3.02	122.46	132.83
3	А	201	GTP	C8-N7-C5	2.80	108.32	102.99
3	А	201	GTP	C2-N1-C6	-2.66	120.20	125.10
3	В	201	GTP	C5-C6-N1	2.64	118.61	113.95
3	В	201	GTP	C2-N1-C6	-2.47	120.55	125.10
3	В	201	GTP	PB-O3B-PG	-2.33	124.82	132.83
3	А	201	GTP	PA-O3A-PB	-2.19	125.31	132.83
3	В	201	GTP	O3G-PG-O3B	2.02	111.41	104.64
3	А	201	GTP	O6-C6-C5	-2.02	120.44	124.37

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	201	GTP	C5'-O5'-PA-O3A
3	В	201	GTP	PA-O3A-PB-O2B
3	А	201	GTP	PA-O3A-PB-O1B

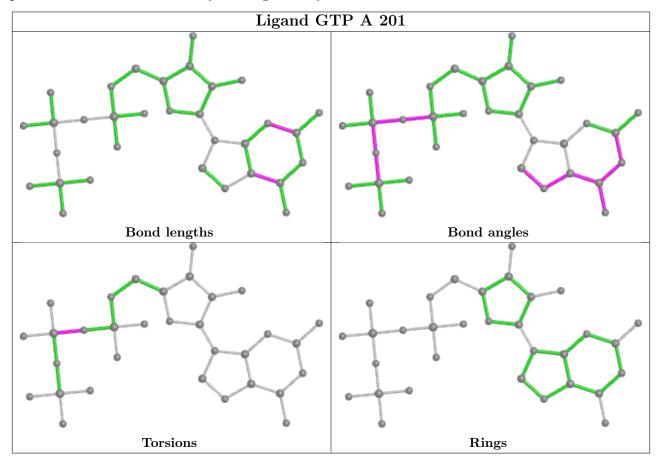
There are no ring outliers.

No monomer is involved in short contacts.

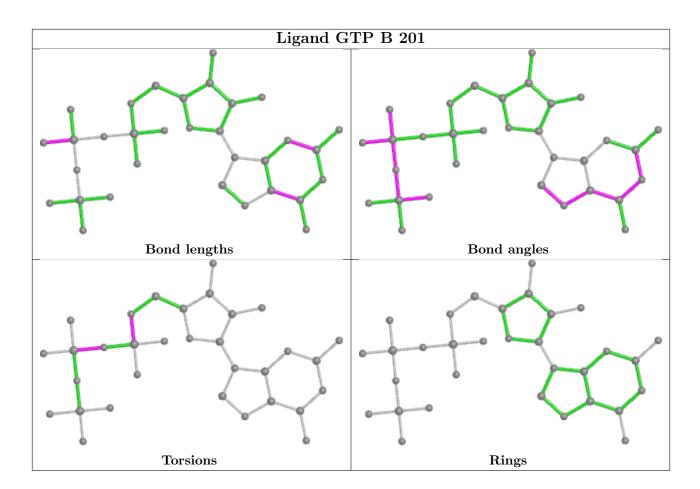
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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		$\mathbf{OWAB}(\mathrm{\AA}^2)$	$\mathbf{Q} \! < \! 0.9$
1	А	164/169~(97%)	-0.17	1 (0%) 89	88	34, 48, 82, 111	0
1	В	164/169~(97%)	-0.15	1 (0%) 89	88	34, 51, 85, 100	0
2	С	196/196~(100%)	-0.06	6 (3%) 49	48	30, 47, 84, 107	0
2	D	196/196~(100%)	-0.08	8 (4%) 37	36	28, 40, 93, 118	0
All	All	720/730~(98%)	-0.11	16 (2%) 62	2 60	28, 46, 88, 118	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	34	VAL	4.4
2	D	79	ALA	4.4
2	С	205	ASP	4.1
2	С	79	ALA	3.7
2	D	80	HIS	3.6
2	D	35	SER	3.3
2	С	202	SER	2.7
2	D	205	ASP	2.6
2	D	78	SER	2.6
2	С	80	HIS	2.4
1	В	23[A]	LEU	2.4
1	А	20	GLU	2.4
2	D	36	LEU	2.3
2	С	12	GLN	2.3
2	С	37	ASP	2.1
2	D	37	ASP	2.1

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.

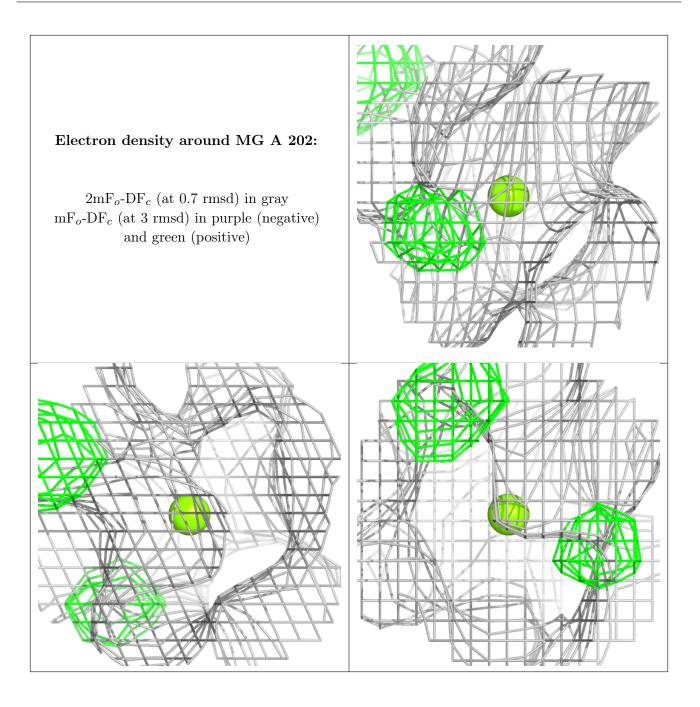
6.4 Ligands (i)

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.

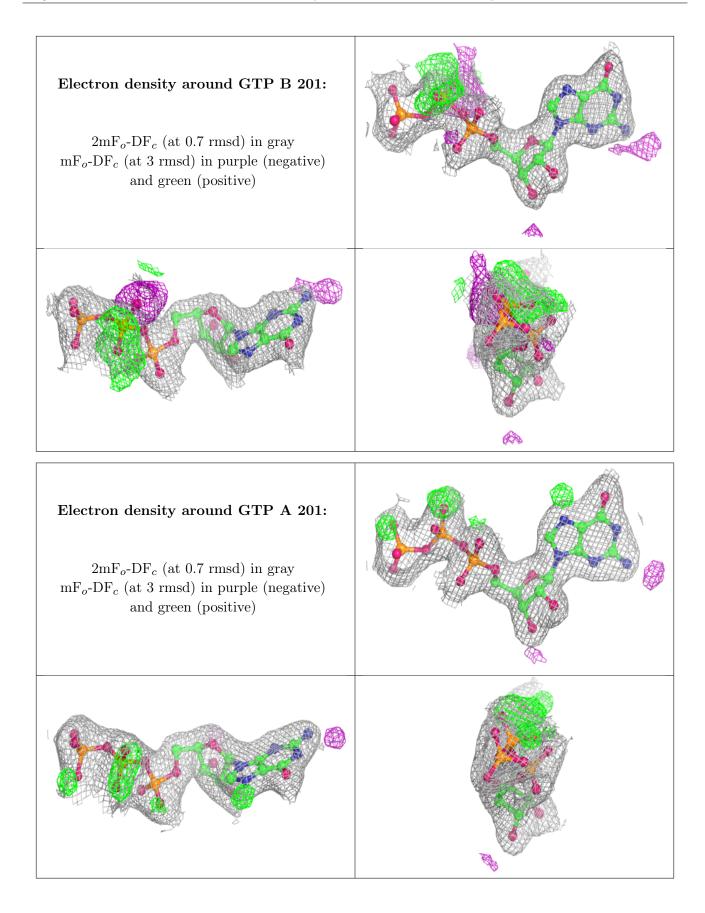
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
4	MG	А	202	1/1	0.95	0.08	$39,\!39,\!39,\!39$	0
3	GTP	В	201	32/32	0.96	0.13	26,48,62,70	0
3	GTP	А	201	32/32	0.98	0.11	33,38,47,49	0
4	MG	В	202	1/1	0.98	0.07	36,36,36,36	0

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.

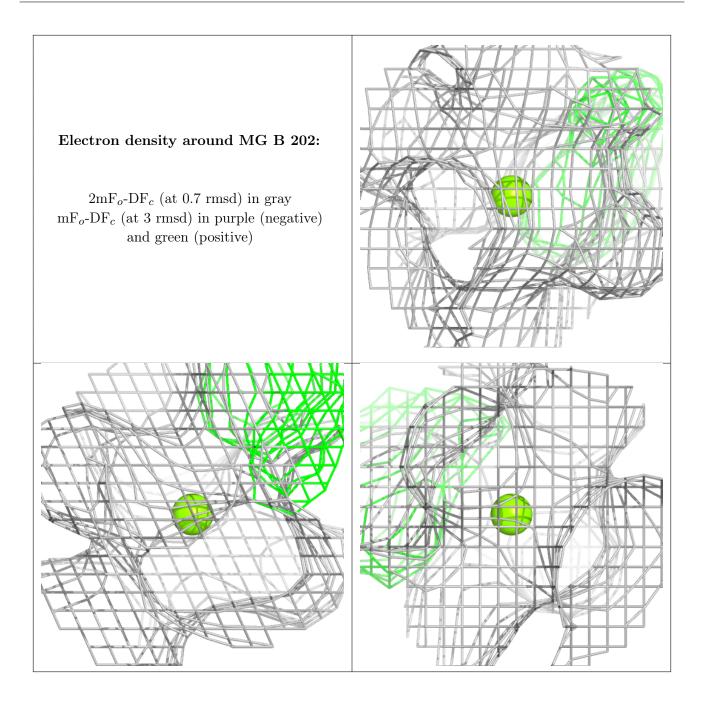












6.5 Other polymers (i)

There are no such residues in this entry.

