

Full wwPDB X-ray Structure Validation Report (i)

Jun 25, 2024 – 07:38 AM EDT

4]triaz

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:

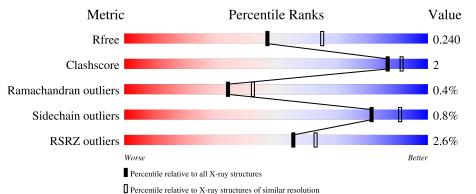
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins) Ideal geometry (DNA, RNA)	: : : : :	20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.37.1

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 2.30 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	5042(2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	420	% • 76%	6% •	17%			
1	В	420	3% 77%	5%•	17%			

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
3	MLI	А	502	-	Х	-	-



6H0U

2 Entry composition (i)

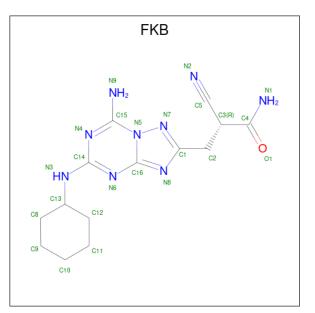
There are 7 unique types of molecules in this entry. The entry contains 5922 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycogen synthase kinase-3 beta.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	348	Total	С	Ν	0	\mathbf{S}	0	0	0
1	A	340	2790	1795	479	505	11			
1	В	348	Total	С	Ν	0	S	0	0	0
1	D	340	2790	1795	479	505	11	0		

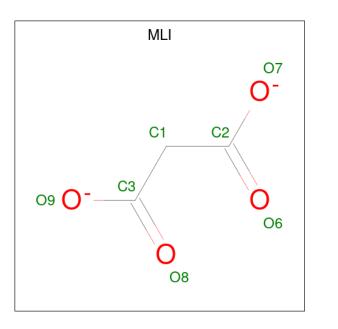
• Molecule 2 is (2 {R})-3-[7-azanyl-5-(cyclohexylamino)-[1,2,4]triazolo[1,5-a][1,3,5]triazin-2-yl]-2-cyano-propanamide (three-letter code: FKB) (formula: C₁₄H₁₉N₉O) (labeled as "Ligand of Interest" by depositor).



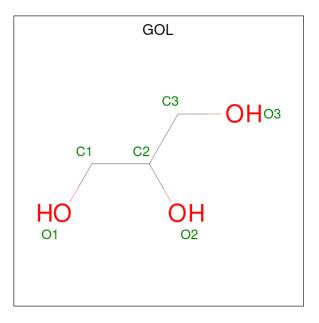
\mathbf{N}	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
	2	А	1	Total C N O 24 14 9 1	0	0
	2	В	1	Total C N O 24 14 9 1	0	0

• Molecule 3 is MALONATE ION (three-letter code: MLI) (formula: $C_3H_2O_4$).





Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
3	А	1	Total 7	${ m C} { m 3}$	0 4	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0



• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	2	Total Cl 2 2	0	0

• Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	Total Na 1 1	0	0

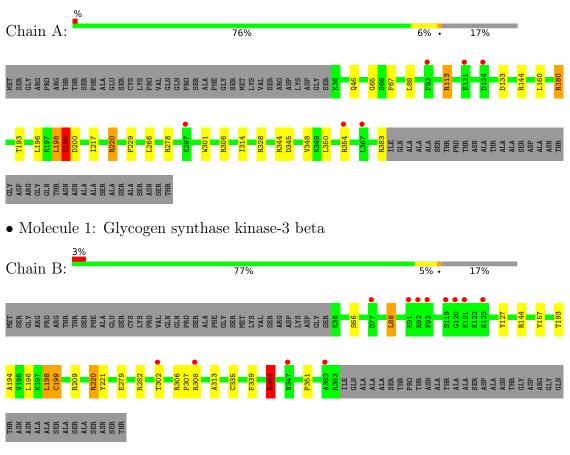
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	142	Total O 142 142	0	0
7	В	124	Total O 124 124	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: Glycogen synthase kinase-3 beta



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	86.80Å 94.54Å 106.58Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.27 - 2.30	Depositor
	47.27 - 2.07	EDS
% Data completeness	99.6(47.27-2.30)	Depositor
(in resolution range)	99.2(47.27-2.07)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.29 (at 2.07 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0230	Depositor
R, R_{free}	0.192 , 0.240	Depositor
It, It _{free}	0.198 , 0.240	DCC
R_{free} test set	2691 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor ($Å^2$)	39.3	Xtriage
Anisotropy	0.161	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 39.2	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	0.96	EDS
Total number of atoms	5922	wwPDB-VP
Average B, all atoms $(Å^2)$	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.69% 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: GOL, CL, FKB, MLI, 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).

Mal	Mol Chain		nd lengths	Bond angles	
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.53	2/2861~(0.1%)	0.69	1/3892~(0.0%)
1	В	0.54	2/2861~(0.1%)	0.72	2/3892~(0.1%)
All	All	0.53	4/5722~(0.1%)	0.70	3/7784~(0.0%)

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	8
1	В	0	6
All	All	0	14

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	199	CYS	C-N	10.15	1.57	1.34
1	А	199	CYS	C-N	9.53	1.55	1.34
1	А	198	LEU	C-N	8.66	1.53	1.34
1	В	198	LEU	C-N	7.16	1.50	1.34

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	В	198	LEU	O-C-N	-9.46	107.56	122.70
1	А	198	LEU	O-C-N	-6.58	112.17	122.70
1	В	344	ARG	NE-CZ-NH2	-5.26	117.67	120.30

There are no chirality outliers.



Mol	Chain	Res	Type	Group
1	А	113	ARG	Sidechain
1	А	144	ARG	Sidechain
1	А	180	ARG	Sidechain
1	А	198	LEU	Mainchain
1	А	199	CYS	Mainchain
1	А	278	ARG	Sidechain
1	А	328	ARG	Sidechain
1	А	344	ARG	Sidechain
1	В	144	ARG	Sidechain
1	В	198	LEU	Mainchain
1	В	209	ARG	Sidechain
1	В	220	ARG	Sidechain
1	В	306	ARG	Sidechain
1	В	344	ARG	Sidechain

All (14) planarity outliers are listed below:

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	2790	0	2816	15	0
1	В	2790	0	2816	11	0
2	А	24	0	0	0	0
2	В	24	0	0	0	0
3	А	7	0	2	0	0
4	А	6	0	8	0	0
4	В	12	0	16	0	0
5	В	2	0	0	0	0
6	В	1	0	0	0	0
7	А	142	0	0	2	0
7	В	124	0	0	2	0
All	All	5922	0	5658	24	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 2.

All (24) 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)
1:B:335:CYS:O	1:B:344:ARG:NH2	2.25	0.68
1:B:302:THR:OG1	7:B:601:HOH:O	2.13	0.65
1:A:383:ARG:NH1	7:A:602:HOH:O	2.34	0.59
1:A:180:ARG:HE	1:A:217:ILE:HG12	1.68	0.59
1:A:193:THR:O	1:A:354:ARG:NH2	2.39	0.56
1:B:307:PRO:O	1:B:308:ARG:HB2	2.07	0.55
1:A:113:ARG:HD2	1:A:133:ASP:OD1	2.09	0.53
1:B:279:GLU:OE2	1:B:282:ARG:NH2	2.26	0.53
1:A:306:ARG:HD2	7:A:672:HOH:O	2.09	0.52
1:A:160:LEU:HD11	1:A:350:LEU:HD22	1.92	0.51
1:B:157:TYR:CZ	1:B:351:PRO:HG2	2.47	0.49
1:A:345:ASP:O	1:A:348:VAL:HG12	2.12	0.49
1:A:88:LEU:HD23	7:B:702:HOH:O	2.13	0.48
1:B:193:THR:O	1:B:194:ALA:HB3	2.18	0.43
1:B:313:ALA:HB2	1:B:339:PHE:CE1	2.54	0.42
1:A:229:PHE:HE1	1:A:266:LEU:HD11	1.84	0.42
1:A:301:TRP:HB3	1:A:314:ILE:HG23	2.02	0.42
1:A:220:ARG:HD3	1:B:220:ARG:HD3	2.02	0.41
1:B:88:LEU:HD12	1:B:127:TYR:CZ	2.55	0.41
1:B:196:LEU:C	1:B:196:LEU:HD23	2.41	0.41
1:A:220:ARG:HD3	1:B:220:ARG:CD	2.51	0.41
1:A:266:LEU:HD23	1:A:266:LEU:HA	1.85	0.40
1:A:196:LEU:HD23	1:A:196:LEU:C	2.42	0.40
1:A:65:GLY:HA3	1:A:67:PHE:CE1	2.57	0.40

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	346/420~(82%)	334 (96%)	10 (3%)	2(1%)	25 31
1	В	346/420~(82%)	332 (96%)	13 (4%)	1 (0%)	41 50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	692/840~(82%)	666~(96%)	23~(3%)	3~(0%)	34 42

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	220	ARG
1	В	221	TYR
1	А	200	ASP

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	Percent	tiles
1	А	310/364~(85%)	308~(99%)	2(1%)	86	94
1	В	310/364~(85%)	307~(99%)	3 (1%)	76	87
All	All	620/728~(85%)	615~(99%)	5 (1%)	81	91

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

Mol	Chain	Res	Type
1	А	46	GLN
1	А	199	CYS
1	В	66	SER
1	В	88	LEU
1	В	199	CYS

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 9 ligands modelled in this entry, 3 are monoatomic - leaving 6 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	ol Type Chain Re		Res Link		Bond lengths			Bond angles		
10101	Mol Type Chain	nes	LINK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2	
4	GOL	В	502	-	$5,\!5,\!5$	0.91	0	$5,\!5,\!5$	0.71	0
4	GOL	А	503	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.47	0
4	GOL	В	503	-	$5,\!5,\!5$	0.57	0	$5,\!5,\!5$	0.52	0
2	FKB	А	501	1	19,26,26	1.49	3 (15%)	21,36,36	2.40	9 (42%)
2	FKB	В	501	1	19,26,26	1.16	3 (15%)	21,36,36	2.55	9 (42%)
3	MLI	А	502	-	6,6,6	3.88	2 (33%)	7,7,7	4.59	5 (71%)

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	GOL	В	502	-	-	2/4/4/4	-
4	GOL	А	503	-	-	0/4/4/4	-
4	GOL	В	503	-	-	2/4/4/4	-
2	FKB	А	501	1	-	2/11/22/22	0/3/3/3
2	FKB	В	501	1	-	1/11/22/22	0/3/3/3
3	MLI	А	502	-	_	2/4/4/4	_



Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	А	502	MLI	C1-C3	7.76	1.63	1.51
3	А	502	MLI	C1-C2	4.95	1.58	1.51
2	А	501	FKB	C3-C5	-4.63	1.42	1.47
2	В	501	FKB	C16-N8	-2.63	1.31	1.35
2	А	501	FKB	C5-N2	-2.50	1.09	1.14
2	В	501	FKB	C2-C3	-2.48	1.52	1.54
2	А	501	FKB	C2-C3	-2.17	1.52	1.54
2	В	501	FKB	C3-C5	-2.00	1.45	1.47

All (8) bond length outliers are listed below:

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	А	502	MLI	O9-C3-O8	-6.05	108.22	123.30
2	В	501	FKB	C3-C5-N2	-6.00	172.64	177.86
3	А	502	MLI	C3-C1-C2	5.69	132.81	112.87
3	А	502	MLI	O7-C2-O6	-5.60	109.34	123.30
3	А	502	MLI	O7-C2-C1	5.42	131.85	114.54
2	А	501	FKB	N9-C15-N4	4.57	123.04	117.03
2	В	501	FKB	C9-C8-C13	4.18	118.98	111.11
2	А	501	FKB	C9-C8-C13	4.14	118.91	111.11
2	А	501	FKB	N6-C14-N4	-4.13	119.69	126.23
2	А	501	FKB	C3-C5-N2	-4.04	174.34	177.86
3	А	502	MLI	O9-C3-C1	3.99	127.29	114.54
2	В	501	FKB	N9-C15-N4	3.78	122.00	117.03
2	В	501	FKB	N9-C15-N5	3.47	120.31	117.97
2	В	501	FKB	C5-C3-C4	-3.40	101.54	109.15
2	В	501	FKB	N6-C14-N4	-3.33	120.97	126.23
2	А	501	FKB	C3-C4-N1	-3.01	113.52	116.80
2	В	501	FKB	C11-C12-C13	2.75	116.29	111.11
2	В	501	FKB	C1-C2-C3	-2.73	106.24	113.09
2	А	501	FKB	N3-C14-N4	2.67	121.18	117.18
2	А	501	FKB	C11-C12-C13	-2.46	106.48	111.11
2	А	501	FKB	C1-C2-C3	-2.38	107.13	113.09
2	В	501	FKB	N3-C14-N6	2.26	120.58	117.18
2	А	501	FKB	C10-C11-C12	-2.13	107.07	111.42

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms				
4	В	502	GOL	O1-C1-C2-C3				

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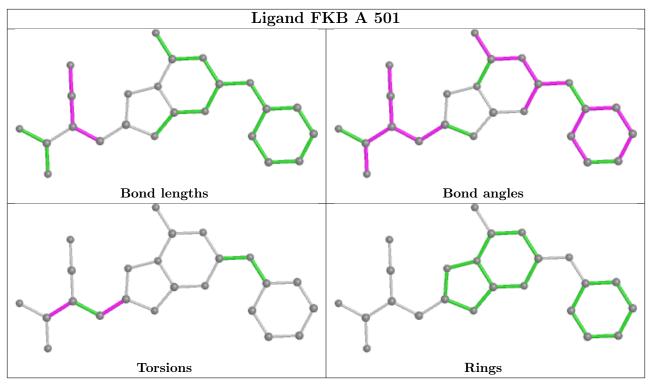
Mol	Chain	Res	Type	Atoms
4	В	503	GOL	C1-C2-C3-O3
4	В	502	GOL	O1-C1-C2-O2
4	В	503	GOL	O2-C2-C3-O3
3	А	502	MLI	C3-C1-C2-O6
3	А	502	MLI	C3-C1-C2-O7
2	А	501	FKB	N7-C1-C2-C3
2	А	501	FKB	C5-C3-C4-N1
2	В	501	FKB	N7-C1-C2-C3

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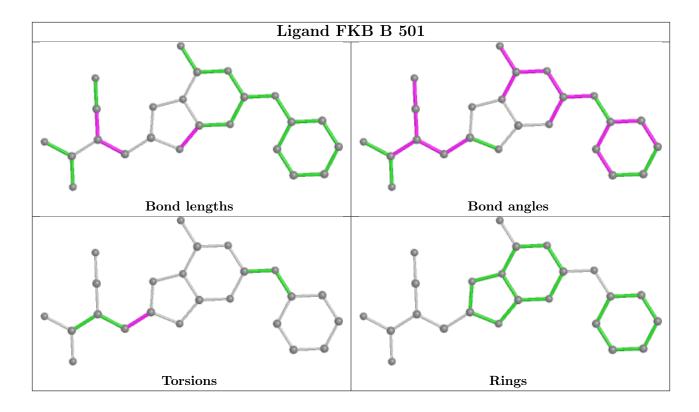
There are no ring outliers.

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	$\langle RSRZ \rangle$	#RSRZ>2		$OWAB(Å^2)$	Q<0.9
1	А	348/420~(82%)	0.17	6 (1%) 70	76	19, 35, 71, 104	0
1	В	348/420~(82%)	0.31	12 (3%) 45	52	20, 32, 71, 133	0
All	All	696/840~(82%)	0.24	18 (2%) 56	63	19, 34, 71, 133	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	121	GLU	5.6
1	В	120	GLY	5.1
1	В	308	ARG	4.9
1	А	93	PHE	4.5
1	В	77	ASP	4.3
1	В	92	ARG	4.0
1	В	123	LYS	3.8
1	В	93	PHE	3.6
1	В	119	SER	3.6
1	В	91	LYS	3.4
1	А	354	ARG	3.0
1	А	121	GLU	2.9
1	А	297	LYS	2.6
1	А	124	ASP	2.5
1	В	302	THR	2.4
1	В	347	ASN	2.3
1	В	382	ALA	2.1
1	А	367	LEU	2.0

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.

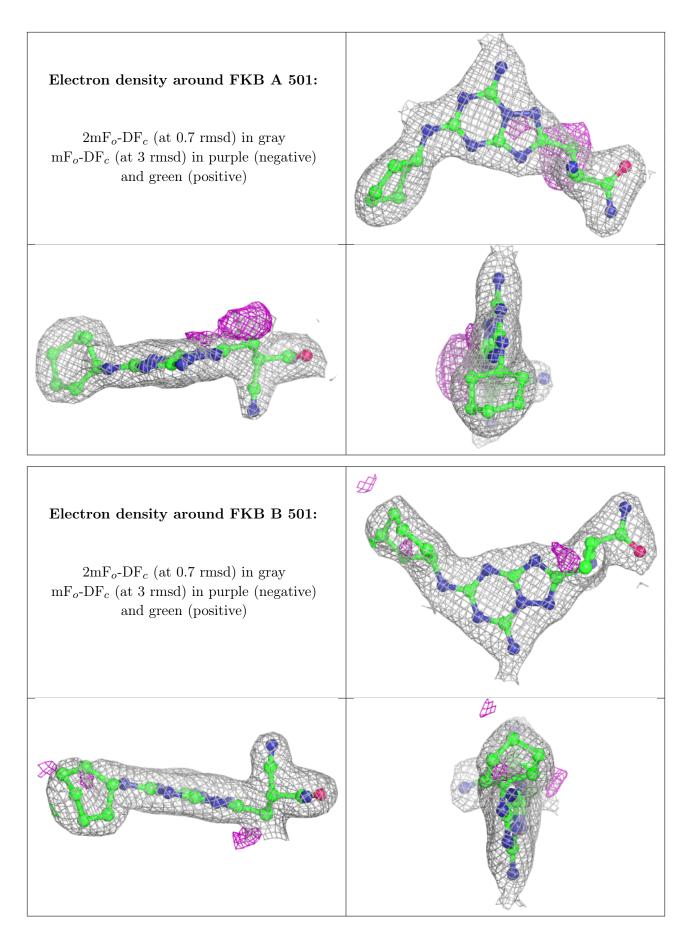
6.4 Ligands (i)

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	B-factors(Å ²)	Q<0.9
4	GOL	В	503	6/6	0.80	0.26	$42,\!56,\!58,\!59$	0
4	GOL	В	502	6/6	0.84	0.19	22,26,27,28	0
2	FKB	А	501	24/24	0.88	0.18	35,42,47,53	0
4	GOL	А	503	6/6	0.90	0.13	37,42,42,42	0
6	NA	В	506	1/1	0.90	0.40	44,44,44,44	0
3	MLI	А	502	7/7	0.91	0.12	26,29,35,36	0
2	FKB	В	501	24/24	0.94	0.13	30,34,40,41	0
5	CL	В	504	1/1	0.95	0.22	44,44,44,44	0
5	CL	В	505	1/1	0.96	0.26	55,55,55,55	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.

