

Full wwPDB X-ray Structure Validation Report (i)

Aug 21, 2020 – 04:28 AM BST

PDB ID : 5LMB

Title : HUMAN SPLEEN TYROSINE KINASE KINASE DOMAIN IN COMPLEX

WITH AZANAPHTHYRIDINE INHIBITOR

Authors : Somers, D.O.; Neu, M.

Deposited on : 2016-07-29

Resolution : 1.95 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 : 4.02b-467

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.13.1 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)

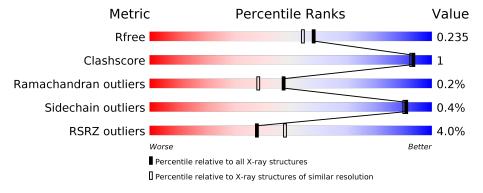
Validation Pipeline (wwPDB-VP) : 2.13.1

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 1.95 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	$2580 \ (1.96 - 1.96)$
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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		
1	A	277	92%		
1	В	277	90%	5% 5%	

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	GOL	A	705	_	_	_	X



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4811 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.

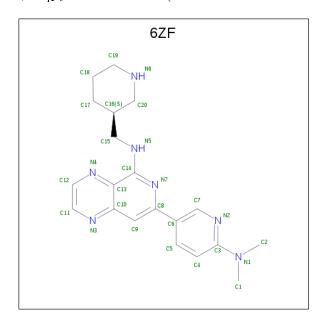
• Molecule 1 is a protein called Tyrosine-protein kinase SYK.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
1	A	265	Total 2186	C 1402	1,	O 396	P 1	S 19	0	3	0
1	В	262		C 1367		0	P 1	S 19	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	359	GLY	_	expression tag	UNP P43405
В	359	GLY	-	expression tag	UNP P43405

• Molecule 2 is 7-[6-(dimethylamino)pyridin-3-yl]- $\{N\}$ -[[(3 $\{S\})$ -piperidin-3-yl]methyl]pyrido[3,4-b]pyrazin-5-amine (three-letter code: 6ZF) (formula: $C_{20}H_{25}N_7$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
2	A	1	Total 27	C 20	N 7	0	0

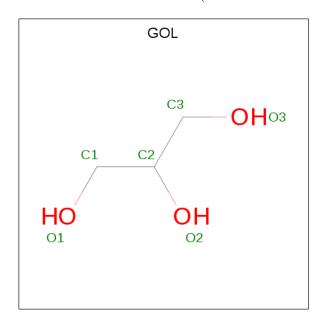
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Mol	Chain	Residues	Ato	oms		ZeroOcc	AltConf
2	В	1	Total 27	C 20	N 7	0	0

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	В	1	Total C O 6 3 3	0	0
3	В	1	Total C O 6 3 3	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	240	Total O 240 240	0	0

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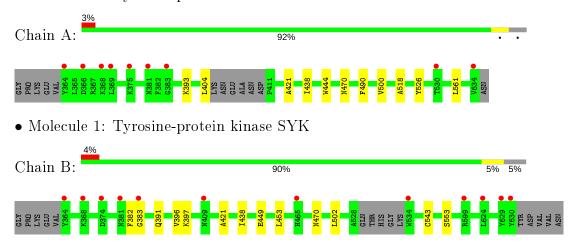
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	154	Total O 154 154	0	0



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: Tyrosine-protein kinase SYK





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	39.85Å 41.78Å 86.99Å	Depositor
a, b, c, α , β , γ	99.81° 90.41° 100.03°	Depositor
Resolution (Å)	20.00 - 1.95	Depositor
resolution (A)	39.37 - 1.95	EDS
% Data completeness	95.2 (20.00-1.95)	Depositor
(in resolution range)	95.3 (39.37-1.95)	EDS
R_{merge}	0.06	Depositor
R_{sym}	0.06	Depositor
$< I/\sigma(I) > 1$	1.73 (at 1.95Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
P. P.	0.175 , 0.228	Depositor
R, R_{free}	0.182 , 0.235	DCC
R_{free} test set	1889 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	29.7	Xtriage
Anisotropy	0.483	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 46.9	EDS
L-test for twinning ²	$ < L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4811	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.92% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ 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, 6ZF, PTR

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.38	0/2219	0.60	0/2987	
1	В	0.35	0/2165	0.59	0/2915	
All	All	0.37	0/4384	0.60	0/5902	

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	$\mathbf{H}(\mathbf{model})$	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	A	2186	0	2168	5	0
1	В	2135	0	2117	7	0
2	A	27	0	0	0	0
2	В	27	0	0	0	0
3	A	30	0	40	0	0
3	В	12	0	16	0	0
4	A	240	0	0	1	0
4	В	154	0	0	1	0
All	All	4811	0	4341	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 1.



All (12) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{ll} ext{Interatomic} \ ext{distance} \ (ext{\AA}) \end{array}$	Clash overlap (Å)
1:A:526:TYR:OH	4:A:801:HOH:O	2.08	0.69
1:A:404:LEU:HD12	1:A:444:TRP:HB2	1.89	0.54
1:B:421:ALA:HB2	1:B:438:ILE:HD11	1.91	0.52
1:B:453:LEU:HB2	1:B:502:LEU:HB2	1.95	0.47
1:A:421:ALA:HB2	1:A:438:ILE:HD11	1.99	0.45
1:B:391:GLN:NE2	4:B:806:HOH:O	2.50	0.45
1:B:397:LYS:HE3	1:B:449:GLU:HG3	1.99	0.45
1:A:490:PHE:CE1	1:A:518:ALA:HB2	2.53	0.43
1:B:382:PHE:CD1	1:B:383:GLY:N	2.87	0.43
1:B:543:CYS:SG	1:B:553:SER:HB3	2.59	0.42
1:A:500:VAL:HG21	1:A:561:LEU:HD11	2.03	0.41
1:B:391:GLN:HA	1:B:396:VAL:HG22	2.02	0.41

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	\mathbf{ntiles}
1	A	263/277~(95%)	256 (97%)	6 (2%)	1 (0%)	34	22
1	В	257/277~(93%)	247 (96%)	10 (4%)	0	100	100
All	All	520/554~(94%)	503 (97%)	16 (3%)	1 (0%)	47	38

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	393	LYS



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	A	232/239 (97%)	231 (100%)	1 (0%)	91 90		
1	В	$226/239 \ (95\%)$	225 (100%)	1 (0%)	91 90		
All	All	458/478 (96%)	456 (100%)	2 (0%)	91 90		

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	470	ASN
1	В	470	ASN

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

Mol	Chain	Res	Type
1	A	489	ASN
1	В	391	GLN
1	В	570	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)

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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	Tuna	Chain	Dog	Link	Bond lengths			Bond angles		
Wioi Typ	туре		m Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	PTR	A	525	1	15,16,17	0.80	0	19,22,24	0.79	0
1	PTR	В	525	1	15,16,17	0.77	0	19,22,24	0.82	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	${f Res}$	Link	Chirals	Torsions	Rings
1	PTR	A	525	1	_	0/10/11/13	0/1/1/1
1	PTR	В	525	1	-	0/10/11/13	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

9 ligands are modelled in this entry.

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	Tuna	Chain	Res	Link	Bond lengths			Bond angles		
Moi Typ	туре	Chain			Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	A	705	-	5,5,5	0.32	0	5,5,5	0.32	0
2	6ZF	A	701	-	29,30,30	0.79	0	37,41,41	1.29	5 (13%)



Mol	Tuna	Chain	Res	Link	Bo	ond leng	ths	Bond angles		
10101	Type	Chain	ites		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	A	706	-	5,5,5	0.32	0	5,5,5	0.19	0
3	GOL	A	704	-	5,5,5	0.27	0	5,5,5	0.11	0
3	GOL	В	702	-	5,5,5	0.38	0	5,5,5	0.40	0
3	GOL	A	703	-	5,5,5	0.35	0	5,5,5	0.37	0
3	GOL	В	703	_	5,5,5	0.31	0	5,5,5	0.18	0
2	6ZF	В	701	-	29,30,30	0.74	1 (3%)	37,41,41	1.49	7 (18%)
3	GOL	A	702	-	5,5,5	0.30	0	5,5,5	0.30	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
3	GOL	A	705	_	-	2/4/4/4	-
2	6ZF	A	701	_	-	1/13/21/21	0/4/4/4
3	GOL	A	706	_	-	2/4/4/4	-
3	GOL	A	704	-	-	3/4/4/4	-
3	GOL	В	702	-	-	2/4/4/4	-
3	GOL	A	703	-	-	2/4/4/4	-
3	GOL	В	703	-	-	2/4/4/4	-
2	6ZF	В	701	_	-	1/13/21/21	0/4/4/4
3	GOL	A	702	-	-	2/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\mathbf{Ideal}(exttt{\AA})$
2	В	701	6ZF	C9-C10	-2.15	1.38	1.41

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
2	В	701	6ZF	C9-C8-C6	-4.56	119.44	123.28
2	В	701	6ZF	C14-C13-N4	3.47	123.63	120.58
2	В	701	6ZF	C5-C4-C3	2.44	120.90	117.53
2	A	701	6ZF	C14-C13-N4	2.40	122.69	120.58
2	В	701	6ZF	C16-C15-N5	-2.32	108.60	112.82
2	A	701	6ZF	C9-C10-N3	2.28	120.57	117.97
2	A	701	6ZF	C5-C4-C3	2.22	120.60	117.53
2	A	701	6ZF	C9-C8-C6	-2.22	121.42	123.28

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Mol	Chain	Res	Type	${f Atoms}$	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
2	В	701	6ZF	C4-C3-N2	-2.18	119.41	123.41
2	A	701	6ZF	C8-N7-C14	2.13	121.36	117.38
2	В	701	6ZF	C6-C8-N7	2.04	118.93	116.02
2	В	701	6ZF	N2-C3-N1	2.00	118.88	116.70

There are no chirality outliers.

All (17) torsion outliers are listed below:

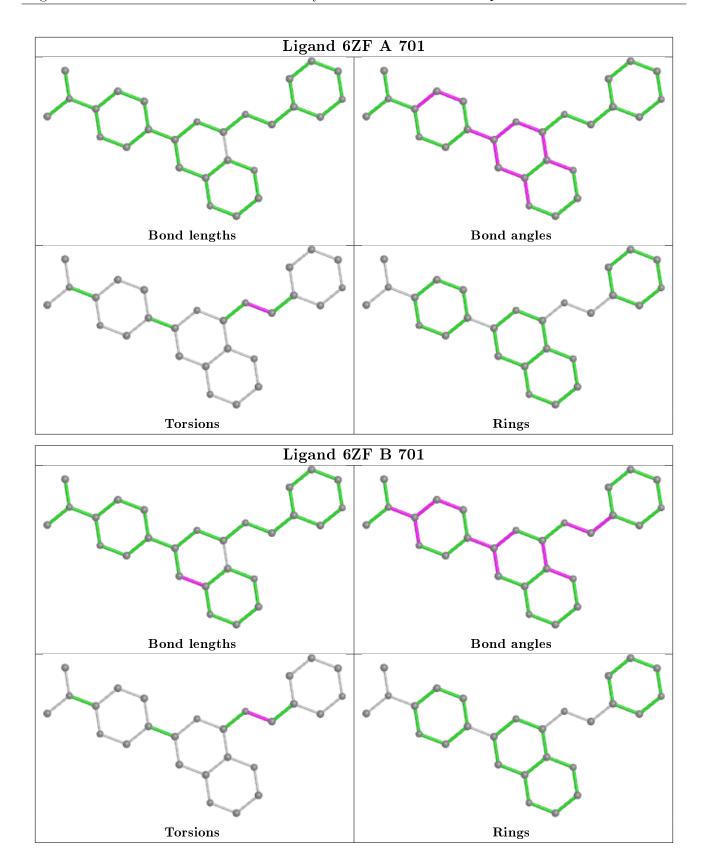
Mol	Chain	Res	Type	Atoms
2	A	701	6ZF	C16-C15-N5-C14
3	В	703	GOL	C1-C2-C3-O3
3	В	703	GOL	O2-C2-C3-O3
3	A	704	GOL	C1-C2-C3-O3
3	A	704	GOL	O2-C2-C3-O3
3	A	706	GOL	O1-C1-C2-C3
3	A	702	GOL	C1-C2-C3-O3
2	В	701	6ZF	C16-C15-N5-C14
3	A	705	GOL	O1-C1-C2-O2
3	В	702	GOL	O1-C1-C2-O2
3	A	703	GOL	O1-C1-C2-O2
3	A	705	GOL	O1-C1-C2-C3
3	A	706	GOL	O1-C1-C2-O2
3	В	702	GOL	O1-C1-C2-C3
3	A	702	GOL	O2-C2-C3-O3
3	A	703	GOL	O1-C1-C2-C3
3	A	704	GOL	O1-C1-C2-O2

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 $>$	$\#\mathrm{RSRZ}{>}2$		$ ext{OWAB}(ext{Å}^2)$	Q < 0.9
1	A	$264/277 \ (95\%)$	0.23	9 (3%) 45 5	5	20, 34, 72, 90	0
1	В	$261/277 \ (94\%)$	0.32	12 (4%) 32 4	12	24, 46, 73, 97	0
All	All	525/554 (94%)	0.28	21 (4%) 38 4	18	20, 40, 73, 97	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	630	TYR	6.6
1	A	634	VAL	3.8
1	В	364	TYR	3.6
1	A	375	LYS	3.3
1	A	364	TYR	3.1
1	A	381	ASN	3.1
1	A	530	THR	3.0
1	В	381	ASN	3.0
1	A	368	LYS	2.8
1	В	534	TRP	2.7
1	В	374	ASP	2.6
1	A	383	GLY	2.5
1	В	368	LYS	2.4
1	A	369	LEU	2.3
1	В	465	HIS	2.3
1	В	624	LEU	2.2
1	В	409	ASN	2.2
1	В	383	GLY	2.2
1	A	366	ASP	2.2
1	В	599	ARG	2.1
1	В	629	TYR	2.0



6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	PTR	В	525	16/17	0.80	0.17	46,61,87,88	0
1	PTR	A	525	16/17	0.91	0.12	31,45,66,72	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

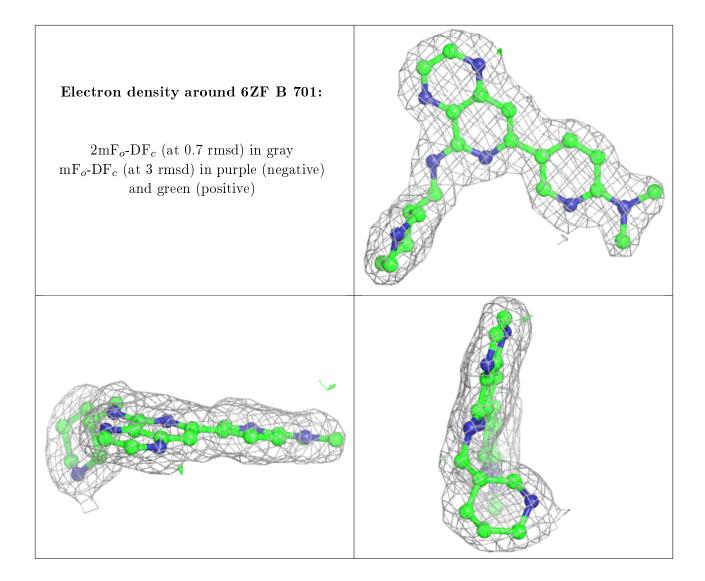
6.4 Ligands (i)

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.

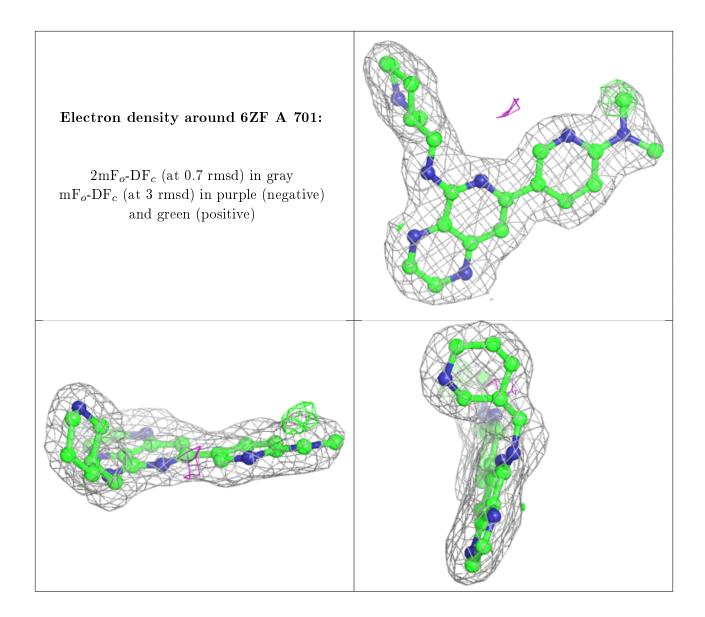
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}({ ext{\AA}}^2)$	Q < 0.9
3	GOL	A	705	6/6	-0.02	0.50	83,86,87,89	0
3	GOL	A	706	6/6	0.76	0.23	78,80,80,82	0
3	GOL	A	704	6/6	0.84	0.18	67,68,69,71	0
3	GOL	A	702	6/6	0.84	0.30	56,57,60,64	0
3	GOL	В	703	6/6	0.86	0.22	66,69,71,72	0
3	GOL	В	702	6/6	0.88	0.31	52,56,59,60	0
3	GOL	A	703	6/6	0.90	0.25	51,52,55,61	0
2	6ZF	В	701	27/27	0.96	0.10	22,27,38,39	0
2	6ZF	A	701	27/27	0.96	0.09	24,27,41,42	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.

