

Full wwPDB X-ray Structure Validation Report (i)

Aug 29, 2020 – 10:31 PM BST

PDB ID : 6SM8

Title: Human jak1 kinase domain in complex with inhibitor

Authors: Read, J.A.; Steuber, H.

Deposited on : 2019-08-21

Resolution : 1.85 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.orgA 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:

Mol Probity : 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.13

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)

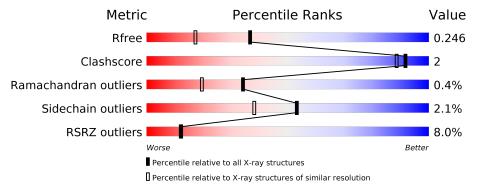
Validation Pipeline (wwPDB-VP) : 2.13

1 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 1.85 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$egin{aligned} ext{Similar resolution} \ (\# ext{Entries}, ext{resolution range}(\mathring{A})) \end{aligned}$		
R_{free}	130704	2469 (1.86-1.86)		
Clashscore	141614	2625 (1.86-1.86)		
Ramachandran outliers	138981	2592 (1.86-1.86)		
Sidechain outliers	138945	2592 (1.86-1.86)		
RSRZ outliers	127900	2436 (1.86-1.86)		

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	302	94%				
2	В	301	90%	• • 6%			



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 5173 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 JAK1.

Mol	Chain	Residues		Atoms			ZeroOcc	AltConf	Trace		
1	Λ	297	Total	С	N	О	Р	S	90	5	0
1	Λ	291	2448	1554	416	460	2	16	90	9	

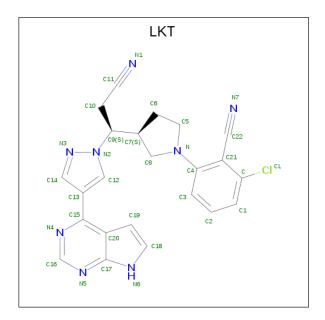
There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Α	853	GLY	-	expression tag	UNP P23458

• Molecule 2 is a protein called Tyrosine-protein kinase JAK1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
2	В	284	Total 2398	C 1525	N 410	O 445	P 2	S 16	37	11	0

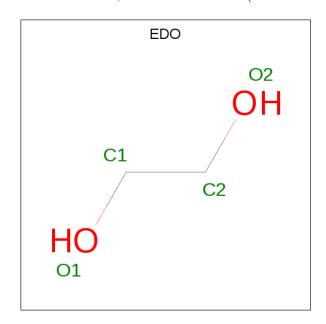
• Molecule 3 is 2-chloranyl-6-[(3 $\{S\}$)-3-[(1 $\{S\}$)-2-cyano-1-[4-(7 $\{H\}$ -pyrrolo[2,3-d]pyrimidin-4-yl)pyrazol-1-yl]ethyl]pyrrolidin-1-yl]benzenecarbonitrile (three-letter code: LKT) (formula: $C_{23}H_{19}ClN_8$) (labeled as "Ligand of Interest" by author).





Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf	
2	Λ	1	Total	С	Cl	N	0	0	
)	A	1	32	23	1	8	U	0	
2	D	1	Total	С	Cl	N	0	0	
)	Б	1	32	23	1	8	0	U	

 \bullet Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



N	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	4	В	1	Total C O 4 2 2	0	0
	4	В	1	Total C O 4 2 2	0	0

 \bullet Molecule 5 is water.

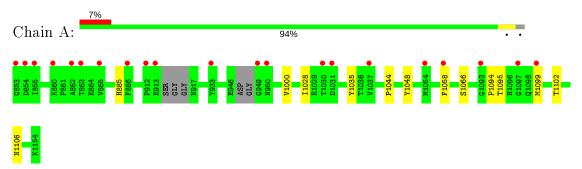
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	112	Total O 112 112	0	0
5	В	142	Total O 143 143	0	1



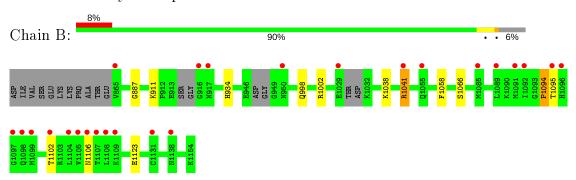
3 Residue-property plots (i)

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 JAK1



• Molecule 2: Tyrosine-protein kinase JAK1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	43.19Å 174.06Å 44.96Å	Donogiton
a, b, c, α , β , γ	90.00° 94.16° 90.00°	Depositor
Resolution (Å)	35.48 - 1.85	Depositor
rtesolution (A)	44.84 - 1.85	EDS
% Data completeness	99.8 (35.48-1.85)	Depositor
(in resolution range)	99.8 (44.84-1.85)	EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.97 \; ({\rm at} \; 1.86 {\rm \AA})$	Xtriage
Refinement program	BUSTER 2.11.7	Depositor
D D.	0.212 , 0.241	Depositor
R, R_{free}	0.213 , 0.246	DCC
R_{free} test set	2478 reflections $(4.42%)$	wwPDB-VP
Wilson B-factor (Å ²)	25.7	Xtriage
Anisotropy	0.205	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32 , 46.5	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.026 for l,-k,h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5173	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.74% 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: LKT, EDO, 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	0.49	0/2465	0.62	0/3317	
2	В	0.52	0/2412	0.62	0/3241	
All	All	0.51	0/4877	0.62	0/6558	

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	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2448	0	2428	6	0
2	В	2398	0	2386	8	0
3	A	32	0	0	1	0
3	В	32	0	0	1	0
4	В	8	0	12	3	0
5	A	112	0	0	1	0
5	В	143	0	0	0	0
All	All	5173	0	4826	15	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 (15) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		$\operatorname{distance}\left(\mathrm{\AA}\right)$	overlap (Å)
2:B:934:HIS:HE2	4:B:1203:EDO:H22	1.62	0.64
3:A:1201:LKT:C22	3:A:1201:LKT:C5	2.79	0.60
3:B:1201:LKT:C5	3:B:1201:LKT:C22	2.80	0.59
1:A:1048:TYR:CE2	1:A:1058:PHE:HZ	2.25	0.55
2:B:934:HIS:HE2	4:B:1203:EDO:C2	2.19	0.55
2:B:934:HIS:NE2	4:B:1203:EDO:H22	2.24	0.52
2:B:1002[B]:ARG:HA	2:B:1058:PHE:CZ	2.46	0.51
1:A:1048:TYR:CZ	1:A:1058:PHE:HZ	2.29	0.50
1:A:1095:THR:O	2:B:1041:ARG:HG2	2.11	0.50
1:A:1000:VAL:HG13	1:A:1028:ILE:HD11	2.00	0.43
2:B:1002[A]:ARG:HA	2:B:1058:PHE:CZ	2.53	0.43
1:A:885:HIS:HE1	5:A:1307:HOH:O	2.02	0.42
2:B:1094:PRO:HB2	2:B:1095:THR:H	1.69	0.41
1:A:1044:PRO:HD2	1:A:1048:TYR:CZ	2.57	0.40
2:B:887:GLY:O	2:B:911:LYS:HE3	2.22	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	A	$294/302 \ (97\%)$	289 (98%)	4 (1%)	1 (0%)	41	26
2	В	$285/301 \; (95\%)$	279 (98%)	5 (2%)	1 (0%)	34	19
All	All	579/603 (96%)	568 (98%)	9 (2%)	2 (0%)	34	26

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	1094	PRO

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Mol	Chain	Res	Type
1	A	1094	PRO

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	${f Analysed}$	Rotameric Outliers		Percentiles		
1	A	$270/267 \ (101\%)$	264 (98%)	6 (2%)	52 36		
2	В	264/267~(99%)	256 (97%)	8 (3%)	41 24		
All	All	534/534~(100%)	520 (97%)	14 (3%)	53 30		

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1066[A]	SER
1	A	1066[B]	SER
1	A	1099[A]	MET
1	Α	1099[B]	MET
1	A	1102	THR
1	A	1106	ASN
2	В	998	GLN
2	В	1038	LYS
2	В	1041	ARG
2	В	1066[A]	SER
2	В	1066[B]	SER
2	В	1102	THR
2	В	1106	ASN
2	В	1123	GLU

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	885	HIS
2	В	998	GLN
2	В	1106	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)

4 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	Tuno	Chain	Res	Link	Bond lengths				Bond angles		
Wioi Typ	Type	Chain	nes	LILK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
1	PTR	A	1035	1	15,16,17	0.57	0	19,22,24	0.98	1 (5%)	
2	PTR	В	1034	2	15,16,17	0.45	0	19,22,24	0.53	0	
1	PTR	A	1034	1	15,16,17	0.47	0	19,22,24	0.58	0	
2	PTR	В	1035	2	15,16,17	0.51	0	19,22,24	0.96	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
1	PTR	A	1035	1	=	0/10/11/13	0/1/1/1
2	PTR	В	1034	2	-	0/10/11/13	0/1/1/1
1	PTR	A	1034	1	=	0/10/11/13	0/1/1/1
2	PTR	В	1035	2	=	0/10/11/13	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
1	A	1035	PTR	O3P-P-OH	2.04	111.62	105.24

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)

4 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	T	Chain	Res	Link	Во	ond leng	ths	Bond angles		
MIGI	Type	Chain Re	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	LKT	В	1201	-	32,36,36	1.53	3 (9%)	30,51,51	1.38	3 (10%)
3	LKT	A	1201	-	32,36,36	1.71	3 (9%)	30,51,51	1.38	5 (16%)
4	EDO	В	1203	-	3,3,3	0.36	0	2,2,2	0.45	0
4	EDO	В	1202	-	3,3,3	0.66	0	2,2,2	0.32	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	${ m Res}$	Link	Chirals	Torsions	Rings
3	LKT	В	1201	-	-	0/12/30/30	0/5/5/5
3	LKT	A	1201	-	-	1/12/30/30	0/5/5/5
4	EDO	В	1203	-	-	1/1/1/1	-
4	EDO	В	1202	-	-	1/1/1/1	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	${f Atoms}$	\mathbf{Z}	${f Observed(\AA)}$	$\operatorname{Ideal}(ext{\AA})$
3	A	1201	LKT	C4-C21	8.28	1.50	1.41
3	В	1201	LKT	C4-C21	6.47	1.48	1.41
3	В	1201	LKT	C13-C15	-3.73	1.44	1.49
3	A	1201	LKT	C13-C15	-2.96	1.45	1.49

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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(ext{\AA})$
3	В	1201	LKT	C15-N4	2.22	1.35	1.32
3	A	1201	LKT	C15-N4	2.13	1.35	1.32

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathbf{Ideal}(^o)$
3	В	1201	LKT	C20-C15-N4	-4.33	120.19	123.04
3	A	1201	LKT	C12-N2-C9	3.94	128.97	125.48
3	В	1201	LKT	C12-N2-C9	3.80	128.85	125.48
3	A	1201	LKT	C20-C15-N4	-3.69	120.61	123.04
3	В	1201	LKT	C5-N-C4	2.68	129.17	121.48
3	A	1201	LKT	C13-C15-N4	2.41	118.95	115.32
3	A	1201	LKT	C4-C21-C22	2.29	123.43	119.53
3	A	1201	LKT	C5-N-C4	2.09	127.48	121.48

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	В	1202	EDO	O1-C1-C2-O2
4	В	1203	EDO	O1-C1-C2-O2
3	A	1201	LKT	C4-C21-C22-N7

There are no ring outliers.

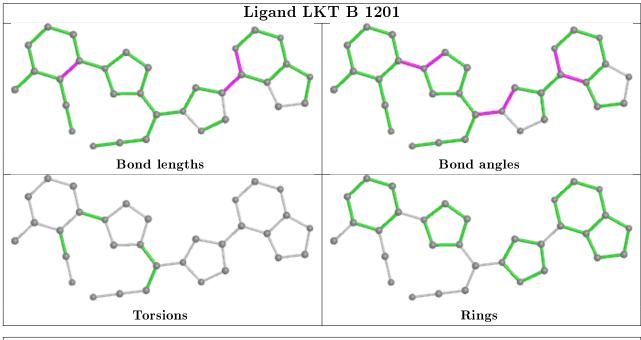
3 monomers are involved in 5 short contacts:

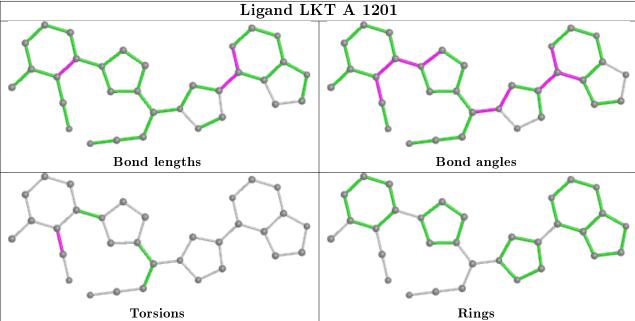
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	1201	LKT	1	0
3	A	1201	LKT	1	0
4	В	1203	EDO	3	0

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	${f Analysed}$	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	295/302~(97%)	0.25	21 (7%) 16 15	20, 41, 80, 96	29 (9%)
2	В	$282/301 \ (93\%)$	0.35	25 (8%) 9 9	14, 37, 98, 155	11 (3%)
All	All	577/603~(95%)	0.30	46 (7%) 12 12	14, 39, 90, 155	40 (6%)

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	1095	THR	6.4
2	В	1099[A]	MET	5.2
1	A	1058	PHE	4.8
1	A	862	ALA	4.4
2	В	1138	ASN	4.2
1	A	860	LYS	4.0
1	A	855	ILE	3.8
2	В	1092	ILE	3.8
2	В	865	VAL	3.6
1	A	853	GLY	3.5
2	В	1109	LYS	3.4
1	A	1054	MET	3.1
2	В	1091	MET	3.1
1	A	1030	THR	3.0
2	В	1108	LEU	3.0
2	В	1096	HIS	3.0
1	A	886	PHE	2.9
1	A	1031	ASP	2.9
2	В	1055	GLN	2.7
1	A	950	ASN	2.7
2	В	1104	LEU	2.6
1	A	949	GLY	2.6
1	A	865	VAL	2.6
2	В	917	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
2	В	1097	GLY	2.5
1	A	863	THR	2.4
2	В	916	GLY	2.4
2	В	1102	THR	2.4
2	В	1089	LEU	2.4
2	В	1029	GLU	2.3
2	В	950	ASN	2.2
1	A	854	ASP	2.2
2	В	1085	MET	2.2
2	В	1107	THR	2.2
2	В	1098	GLN	2.1
1	A	1037	VAL	2.1
2	В	1106	ASN	2.1
1	A	1097	GLY	2.1
1	A	913	GLU	2.1
1	A	933	TYR	2.1
1	A	1093	GLY	2.1
2	В	1105	VAL	2.0
1	A	1099[A]	MET	2.0
2	В	1041	ARG	2.0
1	A	912	PRO	2.0
2	В	1131	CYS	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	A	1034	16/17	0.88	0.16	71,81,92,93	0
2	PTR	В	1034	16/17	0.89	0.16	62,80,98,98	0
1	PTR	A	1035	16/17	0.91	0.13	$66,\!69,\!75,\!75$	0
2	PTR	В	1035	16/17	0.94	0.11	49,52,56,56	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

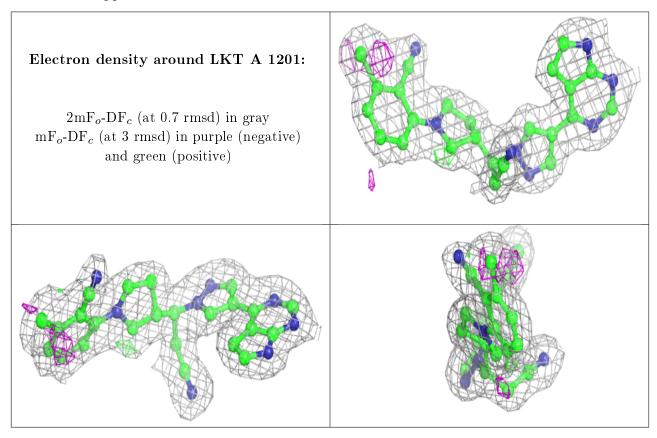


6.4 Ligands (i)

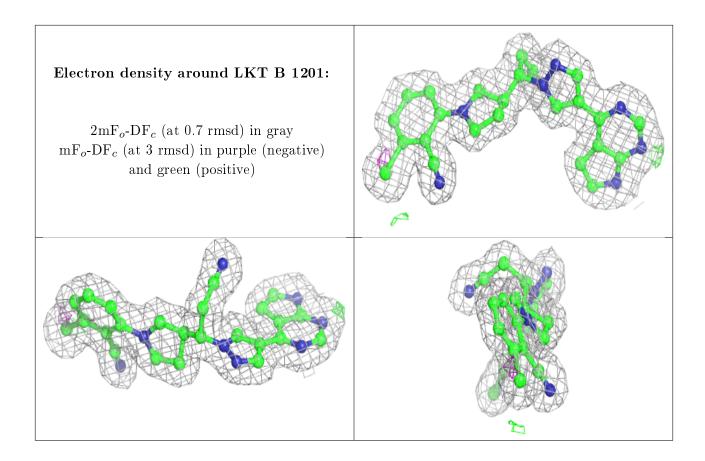
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	EDO	В	1202	4/4	0.83	0.15	$50,\!51,\!52,\!55$	0
4	EDO	В	1203	4/4	0.91	0.24	38,39,39,41	0
3	LKT	A	1201	32/32	0.94	0.11	23,28,37,44	0
3	LKT	В	1201	32/32	0.97	0.10	12,16,24,28	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.

