

Full wwPDB X-ray Structure Validation Report (i)

Oct 15, 2023 – 03:56 AM EDT

PDB ID : 7TEU

Title : Crystal structure of JAK2 JH1 with type II inhibitor YLIU-04-105-1

Authors : Hubbard, S.R. Deposited on : 2022-01-05

Resolution : 1.45 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: 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

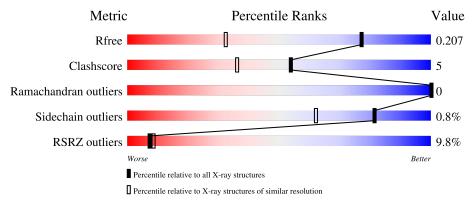
Validation Pipeline (wwPDB-VP) : 2.36

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 1.45 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	Whole archive	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	1156 (1.46-1.46)
Clashscore	141614	1202 (1.46-1.46)
Ramachandran outliers	138981	1178 (1.46-1.46)
Sidechain outliers	138945	1178 (1.46-1.46)
RSRZ outliers	127900	1139 (1.46-1.46)

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		
			9%		
1	A	317	78%	9%	13%

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	\mathbf{Type}	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GOL	A	1202	-	_	X	-



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2506 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 JAK2.

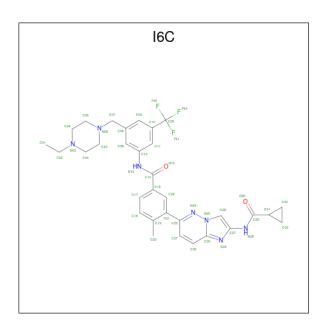
Mol	Chain	Residues		\mathbf{At}	oms			ZeroOcc	AltConf	Trace
1	Λ	276	Total	С	N	О	S	0	4	0
1	A	210	2256	1434	395	411	16	U	4	

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	816	MET	-	initiating methionine	UNP O60674
A	817	GLY	-	expression tag	UNP O60674
A	818	SER	-	expression tag	UNP O60674
A	819	SER	-	expression tag	UNP O60674
A	820	HIS	-	expression tag	UNP O60674
A	821	HIS	-	expression tag	UNP O60674
A	822	HIS	-	expression tag	UNP O60674
A	823	HIS	-	expression tag	UNP O60674
A	824	HIS	-	expression tag	UNP O60674
A	825	HIS	-	expression tag	UNP O60674
A	826	SER	-	expression tag	UNP O60674
A	827	SER	-	expression tag	UNP O60674
A	828	GLY	-	expression tag	UNP O60674
A	829	LEU	-	expression tag	UNP O60674
A	830	VAL	-	expression tag	UNP O60674
A	831	PRO	-	expression tag	UNP O60674
A	832	ARG	-	expression tag	UNP O60674
A	833	GLY	-	expression tag	UNP O60674
A	834	SER	-	expression tag	UNP O60674
A	835	HIS	-	expression tag	UNP O60674
A	836	MET	-	expression tag	UNP O60674
A	1007	PHE	TYR	engineered mutation	UNP O60674
A	1008	PHE	TYR	engineered mutation	UNP O60674

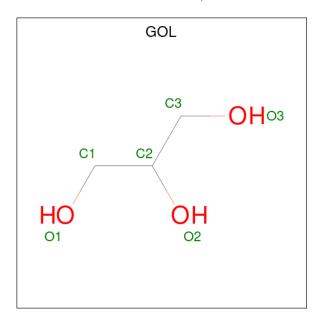
• Molecule 2 is 3-{(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(4S)-2-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl}-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N-{3-[(cyclopropanecarbonyl)amino]imidazo[1,2-b]pyridazin-6-yl]-N





Mol	Chain	Residues		Ato	ms			ZeroOcc	AltConf
9	٨	1	Total	С	F	N	О	0	0
2	A	1	44	32	3	7	2	0	0

 \bullet Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$



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

• Molecule 4 is water.



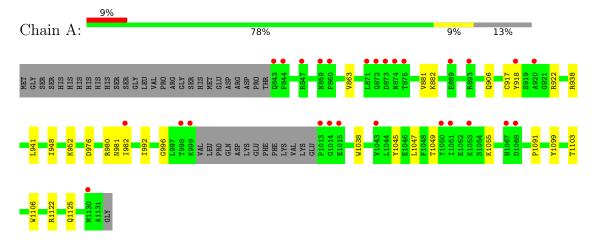
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	200	Total O 200 200	0	0



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 JAK2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	107.47Å 69.36Å 51.51Å	Donositor
a, b, c, α , β , γ	90.00° 99.26° 90.00°	Depositor
Resolution (Å)	28.68 - 1.45	Depositor
Resolution (A)	28.68 - 1.45	EDS
% Data completeness	99.2 (28.68-1.45)	Depositor
(in resolution range)	96.0 (28.68-1.45)	EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	5.11 (at 1.45Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
D D	0.194 , 0.207	Depositor
R, R_{free}	0.194 , 0.207	DCC
R_{free} test set	1998 reflections (3.04%)	wwPDB-VP
Wilson B-factor (Å ²)	14.0	Xtriage
Anisotropy	0.148	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.45, 52.8	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	0.95	EDS
Total number of atoms	2506	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.21% 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, I6C

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	Chain	Bond	lengths	Bond angles		
MOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.36	0/2325	0.65	0/3131	

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	2256	0	2216	24	0
2	A	44	0	0	0	0
3	A	6	0	8	6	0
4	A	200	0	0	6	0
All	All	2506	0	2224	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 5.

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	${ m distance}({ m \AA})$	overlap (Å)
1:A:981:ASN:HD21	3:A:1202:GOL:H11	1.45	0.80
1:A:1049:THR:HG22	1:A:1055:LYS:HE3	1.69	0.75
1:A:1099:TYR:O	1:A:1103[B]:THR:HG23	1.99	0.62
1:A:981:ASN:HD21	3:A:1202:GOL:C1	2.15	0.57
1:A:1045:TYR:O	1:A:1049:THR:HG23	2.05	0.57
1:A:1055:LYS:HE2	1:A:1091:PRO:HA	1.87	0.57
1:A:1103[B]:THR:HG22	4:A:1380:HOH:O	2.05	0.56
1:A:941:LEU:HD23	1:A:948:ILE:HD13	1.90	0.54
1:A:882:LYS:NZ	4:A:1305:HOH:O	2.42	0.52
1:A:938:ARG:NH2	4:A:1307:HOH:O	2.44	0.49
1:A:976:ASP:HB3	3:A:1202:GOL:H12	1.94	0.48
1:A:980:ARG:HH21	3:A:1202:GOL:C1	2.26	0.48
1:A:982[B]:ILE:CD1	1:A:992:ILE:HG12	2.44	0.48
1:A:952:LYS:HA	1:A:952:LYS:HD3	1.68	0.47
1:A:1122:ARG:NH2	4:A:1304:HOH:O	2.41	0.47
1:A:941:LEU:HD11	1:A:1047:LEU:HD23	1.99	0.45
1:A:996:GLY:H	3:A:1202:GOL:C3	2.31	0.44
1:A:982[B]:ILE:HD13	1:A:992:ILE:HA	2.00	0.42
1:A:1125:GLN:HG3	4:A:1327:HOH:O	2.18	0.42
1:A:1038:TRP:CE3	1:A:1106:TRP:HA	2.55	0.41
1:A:918:TYR:HB3	1:A:922:ARG:HA	2.02	0.41
1:A:980:ARG:NH2	3:A:1202:GOL:O1	2.44	0.41
1:A:1055:LYS:NZ	4:A:1308:HOH:O	2.45	0.41
1:A:863:VAL:HA	1:A:881:VAL:O	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 Allowe		Outliers		
1	A	276/317 (87%)	267 (97%)	9 (3%)	0	100 1	00

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	A	247/288 (86%)	245 (99%)	2 (1%)	81 62	

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

Mol	Chain	Res	Type
1	A	906	GLN
1	A	917	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	906	GLN
1	A	1077	HIS

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)

2 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
				nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	2	I6C	A	1201	-	44,49,49	2.25	12 (27%)	61,72,72	1.42	7 (11%)
	3	GOL	A	1202	-	5,5,5	0.91	0	5,5,5	0.78	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
2	I6C	A	1201	-	-	5/30/44/44	0/6/6/6
3	GOL	A	1202	-	-	4/4/4/4	-

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\text{\AA})$
2	A	1201	I6C	C07-N06	-9.45	1.29	1.47
2	A	1201	I6C	C35-N34	3.91	1.37	1.33
2	A	1201	I6C	C02-N03	-3.71	1.29	1.47
2	A	1201	I6C	C44-N03	-3.37	1.37	1.46
2	A	1201	I6C	C43-N06	-3.36	1.37	1.46
2	A	1201	I6C	C29-N28	3.35	1.43	1.35
2	A	1201	I6C	C04-N03	-3.16	1.38	1.46
2	A	1201	I6C	C07-C08	3.05	1.56	1.51
2	A	1201	I6C	C05-N06	-2.83	1.39	1.46
2	A	1201	I6C	C14-N13	2.77	1.43	1.35
2	A	1201	I6C	C20-C19	2.01	1.55	1.51
2	A	1201	I6C	C12-N13	2.01	1.45	1.41

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	1201	I6C	C21-C23-N24	4.46	120.25	115.67
2	A	1201	I6C	C37-C36-C35	-3.76	115.20	119.76
2	A	1201	I6C	C27-N28-C29	-3.53	122.54	127.55
2	A	1201	I6C	C33-C31-C29	-3.51	113.92	117.21
2	A	1201	I6C	C26-N25-C35	2.49	110.79	107.06

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	1201	I6C	C37-C23-N24	2.10	123.87	121.77
2	A	1201	I6C	O30-C29-C31	2.05	124.79	122.12

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1202	GOL	O1-C1-C2-C3
3	A	1202	GOL	C1-C2-C3-O3
3	A	1202	GOL	O1-C1-C2-O2
2	A	1201	I6C	C01-C02-N03-C04
2	A	1201	I6C	C01-C02-N03-C44
2	A	1201	I6C	C22-C21-C23-C37
3	A	1202	GOL	O2-C2-C3-O3
2	A	1201	I6C	C22-C21-C23-N24
2	A	1201	I6C	C19-C21-C23-C37

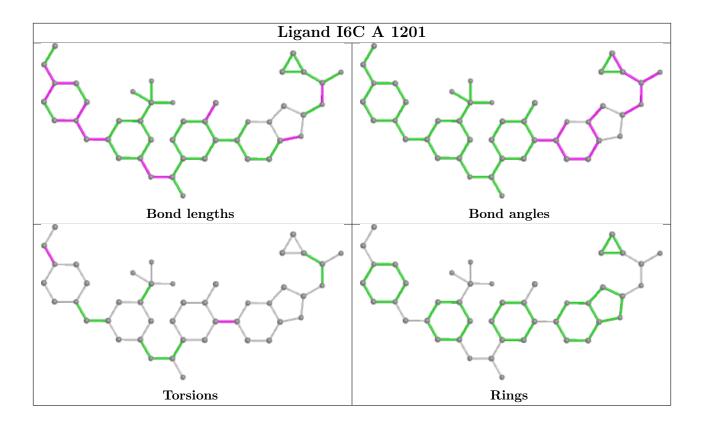
There are no ring outliers.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1202	GOL	6	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	Analysed	<RSRZ $>$	# RSRZ > 2	$OWAB(Å^2)$	Q < 0.9
1	A	276/317 (87%)	0.59	27 (9%) 7 9	9, 19, 37, 45	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	A	1051	ILE	5.6	
1	A	859	ASN	4.1	
1	A	843	GLN	4.0	
1	A	1053	LYS	4.0	
1	A	871	LEU	3.9	
1	A	999	LYS	3.8	
1	A	1013	PRO	3.6	
1	A	1068	ASP	3.2	
1	A	872	GLN	3.2	
1	A	844	PHE	3.1	
1	A	847	ARG	3.1	
1	A	1015	GLU	3.0	
1	A	860	PHE	2.9	
1	A	998	THR	2.9	
1	A	1050	TYR	2.9	
1	A	1014	GLY	2.9	
1	A	874	ASN	2.6	
1	A	875	THR	2.6	
1	A	920	ALA	2.6	
1	A	1067	ASN	2.4	
1	A	893	ARG	2.2	
1	A	889	GLU	2.2	
1	A	1043	VAL	2.1	
1	A	1130	MET	2.1	
1	A	982[A]	ILE	2.1	
1	A	918	TYR	2.1	
1	A	873	ASP	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.

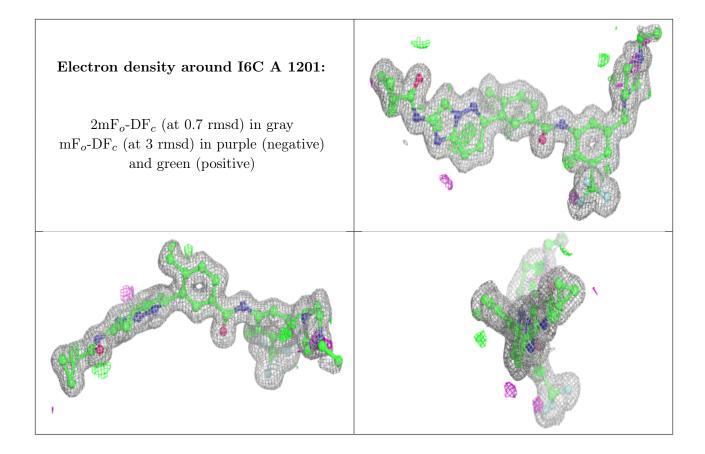
6.4 Ligands (i)

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	${f B-factors}({f \AA}^2)$	Q<0.9
3	GOL	A	1202	6/6	0.81	0.21	20,26,33,37	0
2	I6C	A	1201	44/44	0.94	0.11	10,13,32,37	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.

