

# wwPDB X-ray Structure Validation Summary Report (i)

#### Nov 6, 2023 – 10:48 PM EST

PDB ID : 5TQ3

Title : Design and Synthesis of a pan-JAK kinase inhibitor clinical candidate (PF-

06263276) suitable for the treatment of inflammatory diseases of the lungs and

skin

Authors: Chrencik, J.; Jones, P.

Deposited on : 2016-10-23

Resolution : 2.69 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org A user guide is available at  $\begin{array}{c} \text{A user guide is available at} \\ \text{https://www.wwpdb.org/validation/2017/XrayValidationReportHelp} \\ \text{with specific help available everywhere you see the (i) symbol.} \end{array}$ 

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 (i)) 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 : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

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

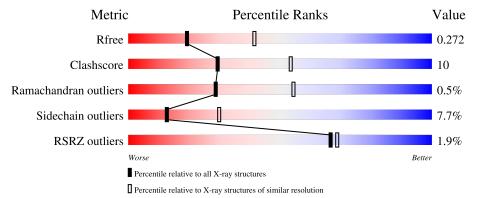
Validation Pipeline (wwPDB-VP) : 2.36

## 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 2.69 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
$R_{free}$	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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				
			2%				
1	A	304	72%	17%	• 7%		
			2%				
1	В	304	71%	18%	• • 6%		



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 4714 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.

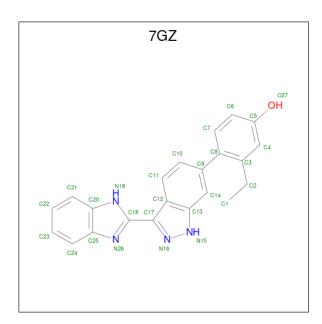
$\mathbf{Mol}$	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
1	A	284	Total 2296	C 1466	N 391	O 424	P 2	S 13	0	1	0
1	В	287	Total 2311	C 1472	N 391	O 433	P 2	S 13	0	0	0

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	829	MET	-	initiating methionine	UNP O60674
A	830	GLY	-	expression tag	UNP O60674
A	831	HIS	-	expression tag	UNP O60674
A	832	HIS	-	expression tag	UNP O60674
A	833	HIS	-	expression tag	UNP O60674
A	834	HIS	-	expression tag	UNP O60674
A	835	HIS	-	expression tag	UNP O60674
A	836	HIS	-	expression tag	UNP O60674
A	1073	SER	MET	engineered mutation	UNP O60674
A	1076	THR	PHE	engineered mutation	UNP O60674
A	1126	VAL	ILE	engineered mutation	UNP O60674
В	829	MET	-	initiating methionine	UNP O60674
В	830	GLY	-	expression tag	UNP O60674
В	831	HIS	-	expression tag	UNP O60674
В	832	HIS	-	expression tag	UNP O60674
В	833	HIS	-	expression tag	UNP O60674
В	834	HIS	-	expression tag	UNP O60674
В	835	HIS	-	expression tag	UNP O60674
В	836	HIS	-	expression tag	UNP O60674
В	1073	SER	MET	engineered mutation	UNP O60674
В	1076	THR	PHE	engineered mutation	UNP O60674
В	1126	VAL	ILE	engineered mutation	UNP O60674

• Molecule 2 is 4-[3-(1H-benzimidazol-2-yl)-1H-indazol-6-yl]-3-ethylphenol (three-letter code: 7GZ) (formula:  $C_{22}H_{18}N_4O$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C N C 27 22 4 1	0	0
2	В	1	Total C N C 27 22 4 1	0	0

### • Molecule 3 is water.

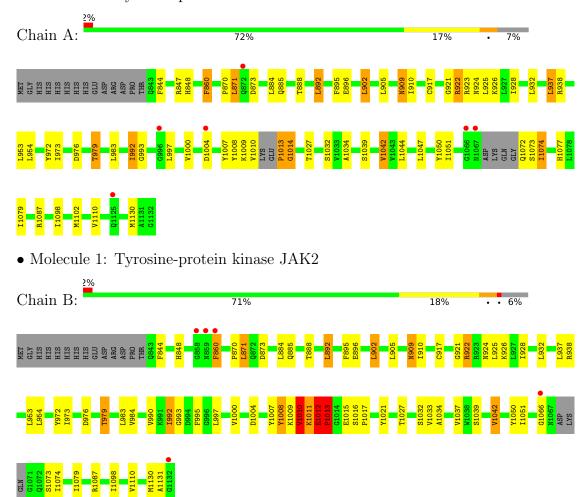
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	26	Total O 26 26	0	0
3	В	27	Total O 27 27	0	0



# 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	P 1 21 1	Depositor
Cell constants	36.85Å 182.73Å 52.77Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $110.41^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	34.54 - 2.69	Depositor
rtesolution (A)	34.54 - 2.69	EDS
% Data completeness	90.9 (34.54-2.69)	Depositor
(in resolution range)	90.9 (34.54-2.69)	EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.01 (at 2.68Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
D D.	0.216 , 0.271	Depositor
$R, R_{free}$	0.217 , $0.272$	DCC
$R_{free}$ test set	858 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	37.4	Xtriage
Anisotropy	0.185	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.30 , 5.4	EDS
L-test for twinning <sup>2</sup>	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.406 for h,-k,-h-l	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	4714	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.63% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: PTR, 7GZ

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		nd lengths	Bond angles		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.49	0/2310	0.72	7/3112 (0.2%)	
1	В	0.55	$2/2326 \ (0.1\%)$	0.73	5/3136 (0.2%)	
All	All	0.52	$2/4636 \ (0.0\%)$	0.72	$12/6248 \ (0.2\%)$	

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	A	0	6
1	В	0	6
All	All	0	12

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$Ideal(\AA)$
1	В	1013	PRO	N-CD	5.29	1.55	1.47
1	В	1017	PRO	N-CD	5.24	1.55	1.47

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	1013	PRO	CB-CA-C	-10.93	84.69	112.00
1	A	1013	PRO	N-CA-C	9.68	137.27	112.10
1	В	922	ARG	N-CA-CB	-8.64	95.05	110.60
1	В	1131	ALA	CB-CA-C	-7.79	98.42	110.10
1	В	1074	ILE	N-CA-C	-7.45	90.89	111.00

There are no chirality outliers.



5 of 12 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1014	GLY	Peptide
1	A	873	ASP	Peptide
1	A	921	GLY	Peptide
1	A	922	ARG	Peptide
1	A	992	ILE	Peptide

## 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	2296	0	2224	38	0
1	В	2311	0	2234	49	0
2	A	27	0	0	1	0
2	В	27	0	0	1	0
3	A	26	0	0	0	0
3	В	27	0	0	0	0
All	All	4714	0	4458	87	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 10.

The worst 5 of 87 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:B:1010:VAL:HA	1:B:1011:LYS:CB	1.77	1.13
1:B:1011:LYS:H	1:B:1012:GLU:HG2	1.18	1.07
1:B:1015:GLU:N	1:B:1015:GLU:OE2	1.87	1.06
1:B:1010:VAL:HA	1:B:1011:LYS:HB3	1.38	1.05
1:B:1011:LYS:HA	1:B:1012:GLU:HB2	1.55	0.86

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	277/304 (91%)	264 (95%)	13 (5%)	0	100	100	
1	В	281/304 (92%)	262 (93%)	16 (6%)	3 (1%)	14	34	
All	All	558/608 (92%)	526 (94%)	29 (5%)	3 (0%)	29	54	

#### All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	1011	LYS
1	В	1012	GLU
1	В	1013	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	Analysed	Rotameric Outliers		Percentiles		
1	A	238/275~(86%)	220 (92%)	18 (8%)	13 30		
1	В	242/275 (88%)	223 (92%)	19 (8%)	12 28		
All	All	480/550 (87%)	443 (92%)	37 (8%)	13 30		

5 of 37 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	979	THR
1	В	1087	ARG
1	В	1004	ASP

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Mol	Chain	Res	Type
1	В	1012	GLU
1	A	1009	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	В	1077	HIS
1	В	924	ASN
1	В	853	GLN
1	A	1077	HIS
1	В	885	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)

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	Во	ond leng	ths	Bond angles		
IVIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	PTR	В	1008	1	15,16,17	1.99	1 (6%)	19,22,24	0.79	0
1	PTR	В	1007	1	15,16,17	2.07	1 (6%)	19,22,24	0.55	0
1	PTR	A	1007	1	15,16,17	2.04	2 (13%)	19,22,24	0.67	1 (5%)
1	PTR	A	1008	1	15,16,17	1.92	1 (6%)	19,22,24	0.76	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	В	1008	1	-	0/10/11/13	0/1/1/1
1	PTR	В	1007	1	-	0/10/11/13	0/1/1/1
1	PTR	A	1007	1	-	0/10/11/13	0/1/1/1
1	PTR	A	1008	1	-	0/10/11/13	0/1/1/1

#### All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\text{\AA})$
1	В	1007	PTR	OH-CZ	-7.43	1.23	1.40
1	A	1007	PTR	OH-CZ	-7.23	1.24	1.40
1	В	1008	PTR	OH-CZ	-7.19	1.24	1.40
1	A	1008	PTR	OH-CZ	-7.13	1.24	1.40
1	A	1007	PTR	P-OH	2.02	1.62	1.59

#### All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
1	A	1007	PTR	O3P-P-OH	2.01	111.52	105.24

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	В	1008	PTR	1	0

## 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	Bo	ond leng	ths	Bond angles		
				nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
ſ	2	7GZ	A	4000	-	29,31,31	0.84	1 (3%)	32,45,45	0.66	1 (3%)
	2	7GZ	В	4001	-	29,31,31	0.83	1 (3%)	32,45,45	0.66	1 (3%)

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	7GZ	A	4000	-	-	1/6/18/18	0/5/5/5
2	7GZ	В	4001	-	-	1/6/18/18	0/5/5/5

#### All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
2	A	4000	7GZ	C18-N26	-2.43	1.32	1.35
2	В	4001	7GZ	C18-N26	-2.41	1.32	1.35

#### All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	4000	7GZ	C9-C14-C13	-2.19	119.52	121.44
2	В	4001	7GZ	C9-C14-C13	-2.19	119.52	121.44

There are no chirality outliers.

#### All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	4001	7GZ	C3-C8-C9-C14
2	A	4000	7GZ	C3-C8-C9-C14

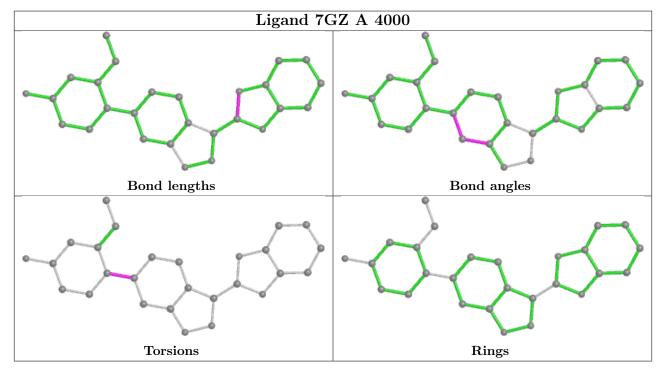
There are no ring outliers.

2 monomers are involved in 2 short contacts:

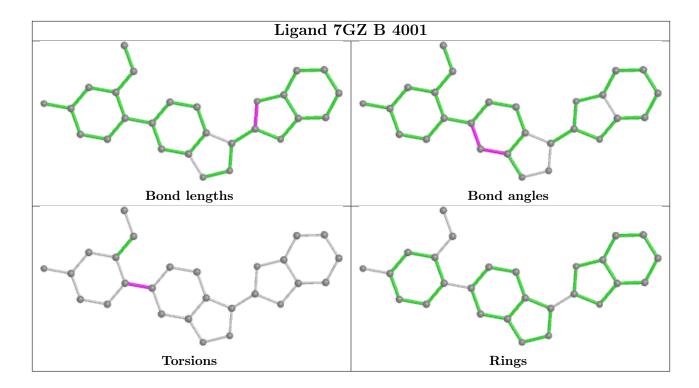
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	4000	7GZ	1	0
2	В	4001	7GZ	1	0



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	$egin{array}{c c} Analysed & <& RSRZ> & \#RSRZ>2 & \\ \end{array}$		$OWAB(A^2)$	Q < 0.9
1	A	282/304 (92%)	0.10	6 (2%) 63 65	21, 34, 63, 91	0
1	В	285/304 (93%)	-0.00	5 (1%) 68 70	22, 34, 64, 90	0
All	All	567/608 (93%)	0.05	11 (1%) 66 69	21, 34, 64, 91	0

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	RSRZ
1	В	1132	GLY	8.1
1	В	860	PHE	3.7
1	A	1125	GLN	2.9
1	В	859	ASN	2.8
1	A	1067	ASN	2.6

## 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	1008	16/17	0.84	0.20	39,49,59,68	0
1	PTR	В	1008	16/17	0.85	0.20	39,49,57,64	0
1	PTR	A	1007	16/17	0.88	0.15	43,55,62,65	0
1	PTR	В	1007	16/17	0.89	0.17	42,55,64,68	0

## 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

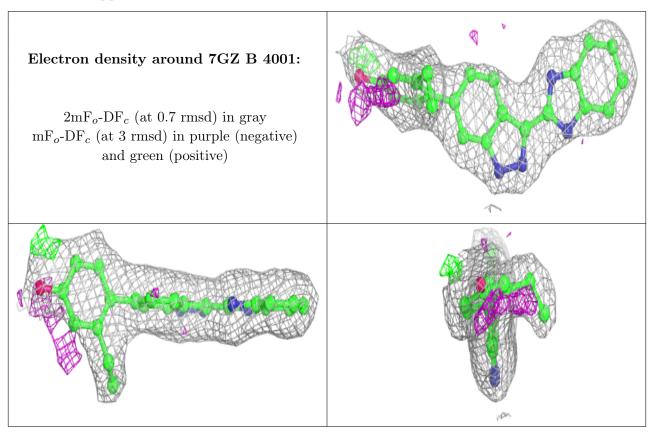


## 6.4 Ligands (i)

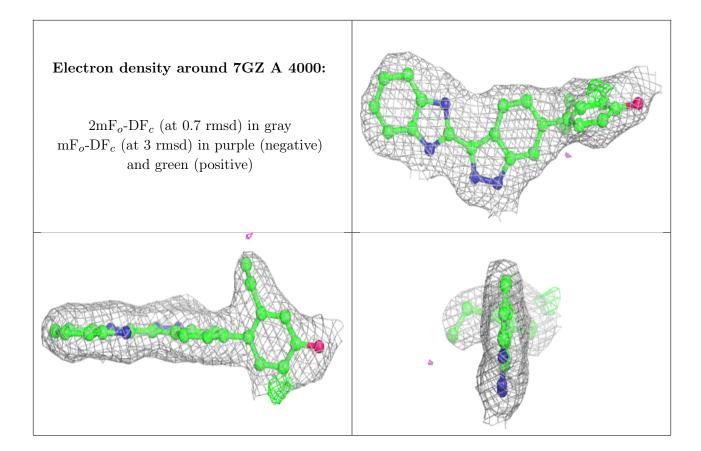
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
2	7GZ	В	4001	27/27	0.92	0.19	21,24,29,32	0
2	7GZ	A	4000	27/27	0.94	0.16	20,23,28,29	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.

