

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

#### Jun 18, 2024 – 11:23 AM EDT

PDB ID : 4C2V

Title: Aurora B kinase in complex with the specific inhibitor Barasertib

Authors: Sessa, F.; Villa, F.

Deposited on : 2013-08-20

Resolution : 1.49 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
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 : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.20.1

EDS : 2.37.1

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)

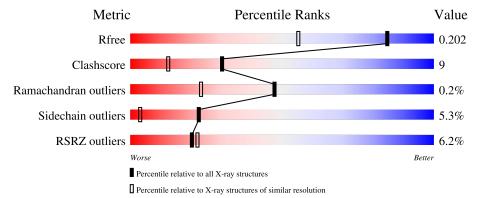
Validation Pipeline (wwPDB-VP) : 2.37.1

## 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 1.49 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	${ m Similar resolution} \ (\#{ m Entries}, { m resolution range}({ m \AA}))$		
$R_{free}$	130704	2936 (1.50-1.50)		
Clashscore	141614	3144 (1.50-1.50)		
Ramachandran outliers	138981	3066 (1.50-1.50)		
Sidechain outliers	138945	3064 (1.50-1.50)		
RSRZ outliers	127900	2884 (1.50-1.50)		

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	A	285	78%	13%	•	5%
1	В	285	7% 75%	20%		
2	С	44	5% 80%	7%	7%	7%
2	D	44	25%	18%		<del></del>



## 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5996 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 AURORA KINASE B-A.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	A	271	Total 2276	C 1458	N 408	O 396	P 1	S 13	0	3	0
1	В	281	Total 2366	C 1512	N 428	O 411	P 1	S 14	0	4	0

• Molecule 2 is a protein called INNER CENTROMERE PROTEIN A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	C	41	Total	С	N	О	S	0	0	0
	41	334	217	54	62	1	0	U	U	
9	D	43	Total	С	N	О	S	0	0	0
	ש	40	351	225	58	67	1	U		

• Molecule 3 is 2-[5-[[7-[3-[ethyl(2-hydroxyethyl)amino]propoxy]quinazolin-4-yl]amino]-1H-pyr azol-3-yl]-N-(3-fluorophenyl)ethanamide (three-letter code: YJA) (formula:  $C_{26}H_{30}FN_7O_3$ ).



	$\mathbf{Mol}$	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf		
	2	Λ	1	Total	С	F	N	О	0	0	
	3	Λ	1	37	26	1	7	3	0		
ĺ	9	D	1	Total	С	F	N	О	0	0	
	3	Б	1	37	26	1	7	3	U	U	

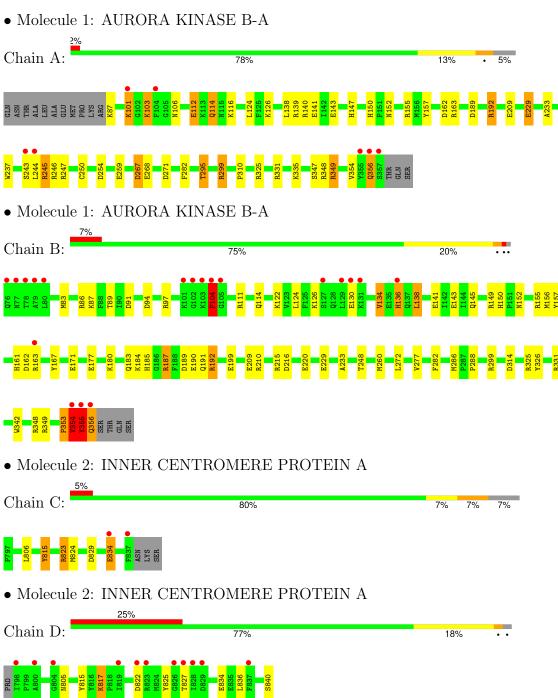
## $\bullet$ Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	280	Total O 280 280	0	0
4	В	282	Total O 282 282	0	0
4	С	12	Total O 12 12	0	0
4	D	21	Total O 21 21	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.





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	46.06Å 68.10Å 117.09Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $96.65^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	38.77 - 1.49	Depositor
rtesolution (A)	44.22 - 1.49	EDS
% Data completeness	98.5 (38.77-1.49)	Depositor
(in resolution range)	98.4 (44.22-1.49)	EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.19 (at 1.49Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
P. P.	0.167 , 0.197	Depositor
$R, R_{free}$	0.174 , $0.202$	DCC
$R_{free}$ test set	5766 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	16.0	Xtriage
Anisotropy	0.439	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.33, 42.5	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.48, < L^2>=0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	5996	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.98% 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: TPO, YJA

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	Bo	nd lengths	Bond angles		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	1.29	$11/2326 \ (0.5\%)$	1.44	$25/3130 \ (0.8\%)$	
1	В	1.21	8/2417 (0.3%)	1.30	$27/3252 \ (0.8\%)$	
2	С	1.06	1/343 (0.3%)	1.22	1/466 (0.2%)	
2	D	0.95	1/359~(0.3%)	1.04	0/485	
All	All	1.22	21/5445 (0.4%)	1.35	53/7333 (0.7%)	

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 maintenain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	В	1	4

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
1	A	209	GLU	CD-OE1	11.23	1.38	1.25
1	В	143	GLU	CD-OE1	10.03	1.36	1.25
1	A	246	ARG	CD-NE	-9.78	1.29	1.46
1	В	220	GLU	CD-OE1	8.71	1.35	1.25
1	В	229	GLU	CD-OE1	-8.13	1.16	1.25

The worst 5 of 53 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$Ideal(^{o})$
1	A	246	ARG	NE-CZ-NH2	-22.15	109.22	120.30
1	В	325	ARG	NE-CZ-NH2	-14.63	112.98	120.30
1	A	163	ARG	NE-CZ-NH2	-13.89	113.36	120.30
1	A	246	ARG	NE-CZ-NH1	13.17	126.89	120.30

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Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	245	ARG	NE-CZ-NH2	-12.46	114.07	120.30

#### All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom	
1	В	89	THR	СВ	

#### All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	В	104	PHE	Peptide
1	В	353	PRO	Peptide
1	В	354	VAL	Peptide
1	В	355	TYR	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	2276	0	2277	34	1
1	В	2366	0	2372	53	0
2	С	334	0	331	4	0
2	D	351	0	347	5	0
3	A	37	0	30	6	0
3	В	37	0	30	12	0
4	A	280	0	0	11	5
4	В	282	0	0	21	2
4	С	12	0	0	2	1
4	D	21	0	0	2	0
All	All	5996	0	5387	100	6

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 9.

The worst 5 of 100 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
3:B:1357:YJA:FAD	3:B:1357:YJA:CBC	1.64	1.36
1:B:185:HIS:CE1	4:B:2119:HOH:O	1.73	1.29
1:B:348:ARG:CZ	4:B:2277:HOH:O	1.89	1.21
1:B:348:ARG:NH2	4:B:2277:HOH:O	1.73	1.19
1:B:94:ASP:OD2	4:B:2024:HOH:O	1.70	1.07

The worst 5 of 6 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
4:A:2032:HOH:O	4:A:2098:HOH:O[2_555]	1.16	1.04
4:A:2008:HOH:O	4:A:2212:HOH:O[2_555]	1.21	0.99
4:B:2223:HOH:O	4:C:2001:HOH:O[2_756]	1.21	0.99
4:A:2007:HOH:O	4:A:2214:HOH:O[2_555]	1.43	0.77
1:A:348:ARG:NH1	4:A:2197:HOH:O[1_655]	1.99	0.21

### 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	entiles
1	A	$271/285\ (95\%)$	262 (97%)	9 (3%)	0	100	100
1	В	282/285~(99%)	271 (96%)	10 (4%)	1 (0%)	34	13
2	С	39/44 (89%)	39 (100%)	0	0	100	100
2	D	41/44~(93%)	40 (98%)	1 (2%)	0	100	100
All	All	633/658~(96%)	612 (97%)	20 (3%)	1 (0%)	47	23

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type	
1	В	354	VAL	



#### 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	247/256~(96%)	235 (95%)	12 (5%)	25	4	
1	В	$256/256 \ (100\%)$	246 (96%)	10 (4%)	32	7	
2	С	$36/39 \; (92\%)$	32 (89%)	4 (11%)	6	0	
2	D	$38/39 \ (97\%)$	34 (90%)	4 (10%)	7	0	
All	All	577/590 (98%)	547 (95%)	30 (5%)	22	3	

5 of 30 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	130	GLU
2	D	817	LYS
1	В	138	LEU
2	D	840	SER
2	С	829	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	В	150	HIS
1	В	152	ASN
1	В	161	HIS
1	A	150	HIS
1	A	152	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)

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	Type Chain l		Res	Link	B	ond leng	${ m gths}$	В	ond ang	les
IVIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	TPO	A	248	1	8,10,11	0.59	0	10,14,16	0.75	0
1	TPO	В	248	1	8,10,11	0.96	0	10,14,16	1.28	1 (10%)

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.

ſ	Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
Γ	1	TPO	A	248	1	-	0/9/11/13	-
	1	TPO	В	248	1	-	0/9/11/13	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mo	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	248	TPO	OG1-P-O1P	-2.43	100.68	109.33

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)

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).

Mal True Chain Dag		Dag	Link	Bond lengths			Bond angles			
Mol Type Cha	Chain	Res	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
3	YJA	В	1357	-	38,40,40	2.89	7 (18%)	47,53,53	2.68	18 (38%)
3	YJA	A	1357	-	38,40,40	1.81	6 (15%)	47,53,53	2.28	15 (31%)

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	YJA	В	1357	-	-	9/21/24/24	0/4/4/4
3	YJA	A	1357	-	-	3/21/24/24	0/4/4/4

The worst 5 of 13 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\text{\AA})$
3	В	1357	YJA	FAD-CBC	11.58	1.64	1.36
3	В	1357	YJA	CAT-CBE	9.39	1.60	1.51
3	A	1357	YJA	FAD-CBC	5.36	1.49	1.36
3	A	1357	YJA	CAT-CBE	5.23	1.56	1.51
3	В	1357	YJA	CBD-NAX	-4.59	1.32	1.41

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
3	A	1357	YJA	C6-C5-C4	7.12	120.07	115.86
3	В	1357	YJA	C5-C4-N3	-6.90	115.51	122.82
3	В	1357	YJA	C6-C5-C4	6.42	119.65	115.86
3	В	1357	YJA	CBD-CAK-CBC	5.61	123.53	117.96
3	A	1357	YJA	C5-C6-N1	-5.52	117.27	121.35

There are no chirality outliers.

5 of 12 torsion outliers are listed below:



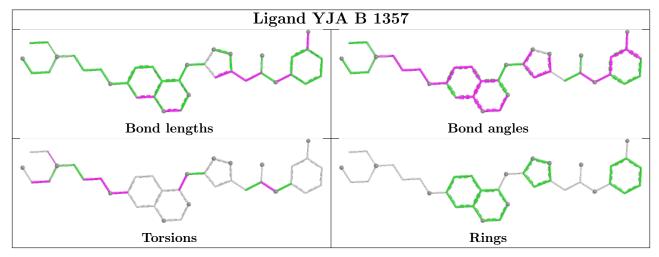
Mol	Chain	Res	Type	Atoms
3	A	1357	YJA	CAN-CAR-NBK-CAS
3	В	1357	YJA	OAC-CAN-CAR-NBK
3	В	1357	YJA	CAS-CAP-CAQ-OBA
3	A	1357	YJA	CAA-CAO-NBK-CAR
3	В	1357	YJA	CAP-CAQ-OBA-CBF

There are no ring outliers.

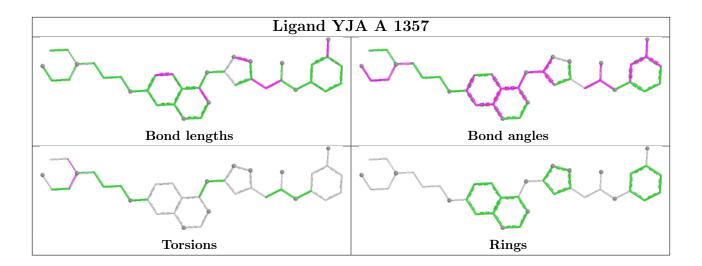
2 monomers are involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	1357	YJA	12	0
3	A	1357	YJA	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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	$270/285 \ (94\%)$	-0.06	7 (2%) 56 61	9, 17, 37, 66	0
1	В	$280/285 \ (98\%)$	-0.01	19 (6%) 17 18	9, 17, 48, 91	0
2	С	41/44 (93%)	0.25	2 (4%) 29 32	19, 28, 44, 57	0
2	D	43/44 (97%)	1.12	11 (25%) 0 0	17, 36, 52, 67	0
All	All	634/658 (96%)	0.06	39 (6%) 20 22	9, 18, 48, 91	0

The worst 5 of 39 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	104	PHE	6.3
1	В	76	GLN	5.7
2	С	837	PHE	5.7
1	В	103	LYS	5.6
1	В	102	GLY	5.3

### 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	$\mathbf{Type}$	Chain	$\operatorname{Res}$	Atoms	RSCC	RSR	$\operatorname{B-factors}({ m \AA}^2)$	Q<0.9
1	TPO	A	248	11/12	0.98	0.05	15,16,17,18	0
1	TPO	В	248	11/12	0.99	0.05	14,16,17,18	0

### 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

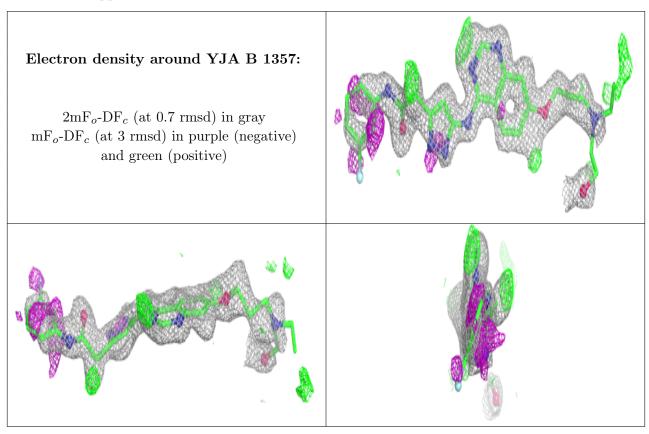


## 6.4 Ligands (i)

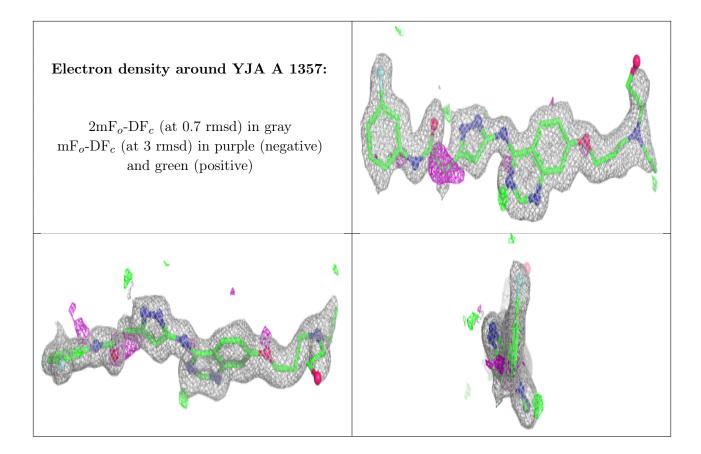
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
3	YJA	В	1357	37/37	0.79	0.26	19,38,63,65	0
3	YJA	A	1357	37/37	0.89	0.18	18,28,61,70	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.

