

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

#### Apr 27, 2024 - 02:17 pm BST

PDB ID	:	2VBQ
Title	:	Structure of AAC(6')-Iy in complex with bisubstrate analog CoA-S- monome
		thyl-acetylneamine.
Authors	:	Vetting, M.W.; Magalhaes, M.L.; Freiburger, L.; Gao, F.; Auclair, K.; Blan-
		chard, J.S.
Deposited on		
Resolution	:	2.00  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 (i)) were used in the production of this report:

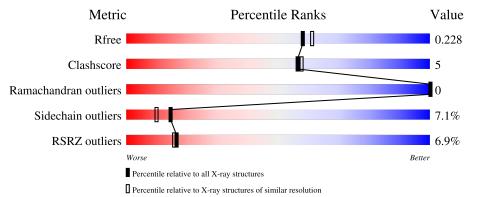
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as $541$ be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.36.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 2.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	А	165	<mark>6%</mark> 81%		7%	• 11%
1	В	165	<sup>6%</sup> 73%	10%	•	13%



#### 2VBQ

# 2 Entry composition (i)

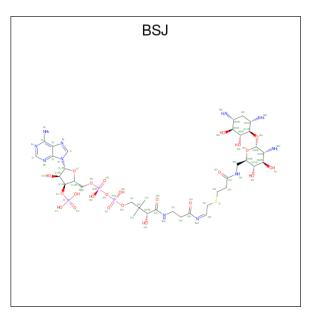
There are 5 unique types of molecules in this entry. The entry contains 2684 atoms, of which 0 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Δ	147	Total	С	Ν	0	S	0	0	0
	A	147	1167	729	217	214	$\overline{7}$	0	0	0
1	р	144	Total	С	Ν	0	S	0	0	0
	D	144	1143	715	212	210	6	0	U	0

• Molecule 1 is a protein called AMINOGLYCOSIDE 6'-N-ACETYLTRANSFERASE.

• Molecule 2 is  $(3R,9Z)-17-[(2R,3S,4R,5R,6R)-5-amino-6-\{[(1R,2R,3S,4R,6S)-4,6-diamino-2, 3-dihydroxycyclohexyl]oxy\}-3,4-dihydroxytetrahydro-2H-pyran-2-yl]-3-hydroxy-2,2-dimet hyl-4,8,15-trioxo-12-thia-5,9,16-triazaheptadec-9-en-1-yl [(2R,3S,4R,5R)-5-(6-amino-9H-pu rin-9-yl)-4-hydroxy-3-(phosphonooxy)tetrahydrofuran-2-yl]methyl dihydrogen diphosphate (three-letter code: BSJ) (formula: C<sub>36</sub>H<sub>62</sub>N<sub>11</sub>O<sub>23</sub>P<sub>3</sub>S).$ 



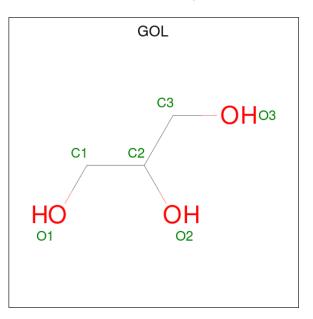
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
0	Δ	1	Total	С	Ν	0	Р	S	0	0
	A	1	74	36	11	23	3	1	0	0
0	р	1	Total	С	Ν	0	Р	S	0	0
	D	1	74	36	11	23	3	1	0	0



• Molecule 3 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Ni 1 1	0	0

• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

• Molecule 5 is water.

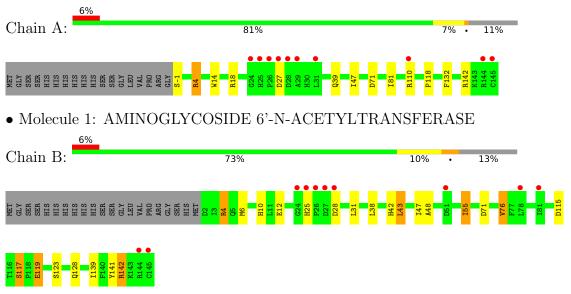
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	108	Total O 108 108	0	0
5	В	111	Total O 111 111	0	0



# 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	C 1 2 1	Depositor
Cell constants	84.96Å 44.60Å 88.39Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $93.92^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	88.05 - 2.00	Depositor
Resolution (A)	24.97 - 2.00	EDS
% Data completeness	95.2 (88.05-2.00)	Depositor
(in resolution range)	95.2 (24.97-2.00)	EDS
R <sub>merge</sub>	0.04	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.93 (at 1.99 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
D D.	0.181 , 0.230	Depositor
$R, R_{free}$	0.180 , $0.228$	DCC
$R_{free}$ test set	1102 reflections $(5.09\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	21.4	Xtriage
Anisotropy	0.156	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.40 , 52.0	EDS
L-test for twinning <sup>2</sup>	$ < 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	2684	wwPDB-VP
Average B, all atoms $(Å^2)$	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.15% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  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: BSJ, NI, GOL

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		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.66	0/1194	0.69	0/1610	
1	В	0.62	0/1169	0.74	2/1577~(0.1%)	
All	All	0.64	0/2363	0.71	2/3187~(0.1%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	76	VAL	CB-CA-C	-6.25	99.52	111.40
1	В	76	VAL	CG1-CB-CG2	5.04	118.97	110.90

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	А	1167	0	1131	13	0
1	В	1143	0	1107	13	0
2	А	74	0	59	3	0
2	В	74	0	59	2	0
3	А	1	0	0	0	0
4	А	6	0	8	0	0
5	А	108	0	0	2	1

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Contre	Continued from previous page											
Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes						
5	В	111	0	0	0	1						
All	All	2684	0	2364	24	1						

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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.

A + a 1	A + 9	Interatomic	Clash
Atom-1	Atom-2	distance $(\text{\AA})$	overlap (Å)
1:A:4:ARG:HH11	1:A:4:ARG:HG3	1.38	0.86
1:A:81:ILE:HG23	2:A:1000:BSJ:H50	1.74	0.69
1:B:123:SER:HB2	2:B:1146:BSJ:H512	1.82	0.62
1:B:6:MET:HB2	1:B:47:ILE:CD1	2.33	0.58
1:A:81:ILE:CG2	2:A:1000:BSJ:H50	2.36	0.55
1:B:42:HIS:CD2	1:B:43:LEU:HD13	2.43	0.54
1:A:4:ARG:HH11	1:A:4:ARG:CG	2.15	0.52
1:A:132:PHE:HB3	1:B:141:TYR:HB3	1.92	0.51
1:B:48:ALA:O	1:B:55:ILE:HD13	2.12	0.50
1:B:123:SER:HB2	2:B:1146:BSJ:C51	2.41	0.50
1:B:4:ARG:HD2	1:B:10:HIS:HE2	1.77	0.50
2:A:1000:BSJ:H511	2:A:1000:BSJ:O49	2.12	0.49
1:A:71:ASP:OD2	1:B:142:ARG:NH2	2.46	0.48
1:B:6:MET:HB2	1:B:47:ILE:HD11	1.94	0.48
1:A:118:PRO:HA	1:B:139:ILE:HD11	1.97	0.47
1:A:14:TRP:CE2	1:A:18:ARG:HD2	2.52	0.45
1:B:28:ASP:O	1:B:31:LEU:HB2	2.17	0.43
1:B:117:SER:OG	1:B:119:GLU:OE2	2.35	0.42
1:A:39:GLN:HB2	5:A:2028:HOH:O	2.19	0.41
1:A:4:ARG:HG3	1:A:4:ARG:NH1	2.17	0.41
1:A:110:ARG:NH2	5:A:2074:HOH:O	2.54	0.41
1:B:6:MET:HG3	1:B:10:HIS:HB2	2.03	0.41
1:A:4:ARG:CG	1:A:4:ARG:NH1	2.80	0.41
1:A:14:TRP:HB2	1:A:47:ILE:HD11	2.03	0.40

All (1) 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	Interatomic distance (Å)	Clash overlap (Å)
5:A:2022:HOH:O	5:B:2037:HOH:O[3_445]	2.14	0.06



### 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	Percent	iles
1	А	145/165~(88%)	143 (99%)	2(1%)	0	100 1	100
1	В	142/165~(86%)	139~(98%)	3~(2%)	0	100 1	L00
All	All	287/330~(87%)	282~(98%)	5(2%)	0	100 1	L00

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	Percen	tiles
1	А	122/137~(89%)	118 (97%)	4 (3%)	38	37
1	В	119/137~(87%)	106 (89%)	13 (11%)	6	3
All	All	241/274 (88%)	224 (93%)	17 (7%)	14	10

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	-1	SER
1	А	4	ARG
1	А	27	ASP
1	А	142	ARG
1	В	4	ARG
1	В	12	GLU
1	В	25	HIS
1	В	38	LEU

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Conti	nueu jron	i previ	ous page
Mol	Chain	Res	Type
1	В	43	LEU
1	В	55	ILE
1	В	71	ASP
1	В	76	VAL
1	В	115	ASP
1	В	117	SER
1	В	119	GLU
1	В	128	GLN
1	В	142	ARG

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Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	13	HIS
1	А	106	ASN
1	В	64	HIS
1	В	106	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)

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)

Of 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 for Mogul analysis.

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



Mol	Turne	Chain	Res	Res Link Bond lengths			Bo	nd angl	es	
	Type	Unam	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	BSJ	В	1146	-	69,78,78	1.08	3 (4%)	84,116,116	1.27	9 (10%)
2	BSJ	А	1000	-	69,78,78	1.35	6 (8%)	84,116,116	1.20	6 (7%)
4	GOL	А	1002	-	$5,\!5,\!5$	0.30	0	5,5,5	0.69	0

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).

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	BSJ	В	1146	-	-	8/54/118/118	0/5/5/5
2	BSJ	А	1000	-	-	10/54/118/118	0/5/5/5
4	GOL	А	1002	-	-	2/4/4/4	-

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	А	1000	BSJ	P1-O13	6.61	1.71	1.59
2	В	1146	BSJ	O17-C11	3.57	1.46	1.41
2	А	1000	BSJ	C12-C11	3.24	1.58	1.53
2	А	1000	BSJ	P1-014	2.67	1.65	1.54
2	А	1000	BSJ	O45-C45	2.33	1.46	1.42
2	А	1000	BSJ	P1-O16	2.25	1.63	1.54
2	В	1146	BSJ	P1-O16	2.15	1.63	1.54
2	А	1000	BSJ	C44-C42	2.11	1.58	1.53
2	В	1146	BSJ	C50-N49	2.09	1.34	1.26

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	1146	BSJ	N5-C4-N4	-4.98	120.89	128.68
2	А	1000	BSJ	N5-C4-N4	-4.83	121.13	128.68
2	В	1146	BSJ	C59-C58-N51	-3.19	106.40	112.69
2	В	1146	BSJ	O54-C61-C66	2.88	114.94	107.28
2	В	1146	BSJ	P2-O24-P3	-2.85	123.05	132.83
2	В	1146	BSJ	O51-C56-C55	2.60	114.89	110.22
2	В	1146	BSJ	C43-C42-C45	2.54	113.22	108.82
2	А	1000	BSJ	C13-C12-C11	2.47	105.37	99.89

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	1000	BSJ	C58-C59-C57	2.46	118.40	113.54
2	А	1000	BSJ	O54-C61-C62	-2.46	103.31	109.18
2	А	1000	BSJ	P2-O24-P3	-2.36	124.74	132.83
2	В	1146	BSJ	C53-C54-N51	-2.24	112.65	116.42
2	В	1146	BSJ	C57-C56-C55	-2.17	107.34	111.07
2	В	1146	BSJ	C15-C14-C13	-2.06	107.57	114.40
2	А	1000	BSJ	C4-N4-C3	2.03	122.22	118.75

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There are no chirality outliers.

Mol	Chain	$\mathbf{Res}$	Type	Atoms
2	А	1000	BSJ	S1-C52-C53-C54
2	А	1000	BSJ	C15-O21-P2-O22
2	В	1146	BSJ	C15-O21-P2-O22
4	А	1002	GOL	O1-C1-C2-C3
4	А	1002	GOL	O1-C1-C2-O2
2	В	1146	BSJ	C66-C61-O54-C60
2	А	1000	BSJ	C52-C53-C54-O57
2	А	1000	BSJ	C15-O21-P2-O24
2	В	1146	BSJ	C41-O33-P3-O24
2	В	1146	BSJ	C15-O21-P2-O24
2	А	1000	BSJ	C15-O21-P2-O23
2	В	1146	BSJ	C15-O21-P2-O23
2	А	1000	BSJ	C52-C53-C54-N51
2	А	1000	BSJ	O53-C60-O54-C61
2	В	1146	BSJ	C53-C52-S1-C51
2	А	1000	BSJ	C59-C58-N51-C54
2	А	1000	BSJ	C66-C61-O54-C60
2	В	1146	BSJ	C50-C51-S1-C52
2	А	1000	BSJ	C41-O33-P3-O24
2	В	1146	BSJ	N51-C58-C59-O53

All (20) torsion outliers are listed below:

There are no ring outliers.

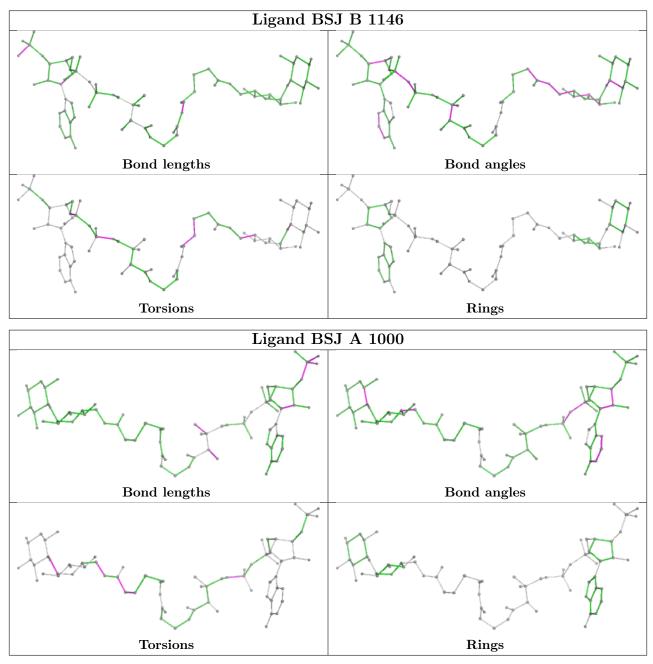
2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	1146	BSJ	2	0
2	А	1000	BSJ	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	Analysed	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(Å^2)$	Q<0.9
1	А	147/165~(89%)	0.17	10 (6%) 17 16	8, 18, 44, 58	0
1	В	144/165~(87%)	0.22	10 (6%) 16 16	13, 21, 34, 49	0
All	All	291/330~(88%)	0.20	20 (6%) 16 16	8, 20, 40, 58	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	24	GLY	6.6
1	А	25	HIS	6.5
1	А	26	PRO	5.3
1	В	26	PRO	4.7
1	А	29	ALA	4.6
1	А	27	ASP	4.0
1	А	24	GLY	3.8
1	А	28	ASP	3.7
1	В	28	ASP	3.7
1	А	31	LEU	3.2
1	В	78	LEU	3.2
1	В	25	HIS	3.0
1	В	145	CYS	2.9
1	В	27	ASP	2.7
1	В	81	ILE	2.6
1	А	144	ARG	2.6
1	В	51	ASP	2.4
1	А	145	CYS	2.3
1	В	144	ARG	2.0
1	А	110	ARG	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.

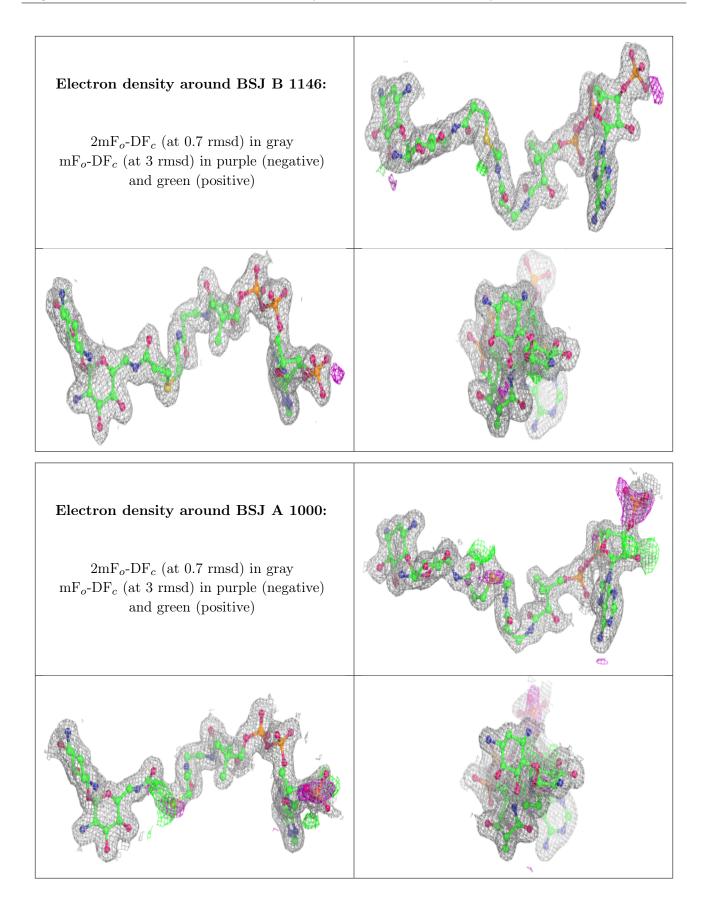
### 6.4 Ligands (i)

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	$B-factors(Å^2)$	Q<0.9
4	GOL	А	1002	6/6	0.82	0.16	$31,\!38,\!39,\!42$	0
2	BSJ	В	1146	74/74	0.92	0.13	$10,\!19,\!35,\!39$	0
2	BSJ	А	1000	74/74	0.92	0.13	$9,\!18,\!36,\!43$	0
3	NI	А	1001	1/1	1.00	0.06	14,14,14,14	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.

