

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

#### Dec 12, 2023 – 09:16 pm GMT

inhibitor XZ-90
ov, P.

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:

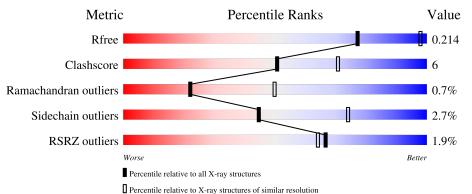
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
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:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 2.85 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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	3168(2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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 a	chain	
1	А	395	2%		76%	16%	• 7%
1	В	395	.%	41%	5%	53%	
2	С	19	5%		68%	21%	11%
3	D	17			65%	29%	6%



## 2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 5372 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	Atoms					ZeroOcc	AltConf	Trace
1	А	368	Total 2920	C 1872	N 512	0 532	${ m S}{ m 4}$	0	0	0
1	В	184	Total 1423		N	0 0 267	S	0	0	0

• Molecule 1 is a protein called PFV INTEGRASE.

	There are 10	discrepancies	between	the modelled	and	reference sequences:	
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Chain	Residue	Modelled	Actual	Comment	Reference
А	-2	GLY	-	expression tag	UNP P14350
А	-1	PRO	-	expression tag	UNP P14350
А	0	GLY	-	expression tag	UNP P14350
А	217	SER	GLY	variant	UNP P14350
А	218	GLY	SER	variant	UNP P14350
В	-2	GLY	-	expression tag	UNP P14350
В	-1	PRO	-	expression tag	UNP P14350
В	0	GLY	-	expression tag	UNP P14350
В	217	SER	GLY	variant	UNP P14350
В	218	GLY	SER	variant	UNP P14350

• Molecule 2 is a DNA chain called 19 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (NON-TRANSFERRED STRAND).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	С	19	Total 387	C 187	N 68	0 114	Р 18	0	0	0

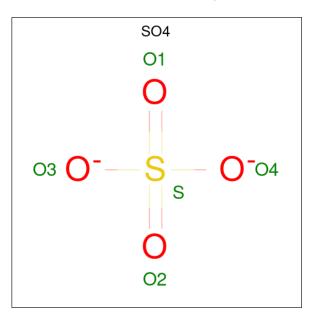
• Molecule 3 is a DNA chain called 17 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (TRANSFERRED STRAND).

Mol	Chain	Residues		Ate	$\mathbf{oms}$			ZeroOcc	AltConf	Trace
3	D	17	Total 345	C 166	N 65	O 98	Р 16	0	0	0



• Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

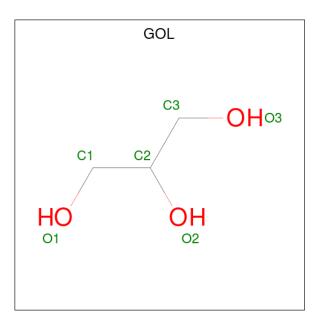
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Zn 1 1	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
5	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

• Molecule 6 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).





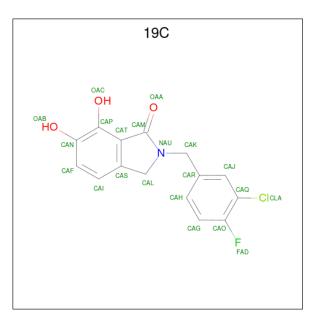
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
6	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 6  3  3 \end{array}$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

• Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	2	Total Mg 2 2	0	0

• Molecule 8 is 2-[(3-chloranyl-4-fluoranyl-phenyl)methyl]-6,7-bis(oxidanyl)isoindol-1-one (three-letter code: 19C) (formula:  $C_{15}H_{11}ClFNO_3$ ).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
8	А	1	Total 21		Cl 1		N 1	O 3	0	0

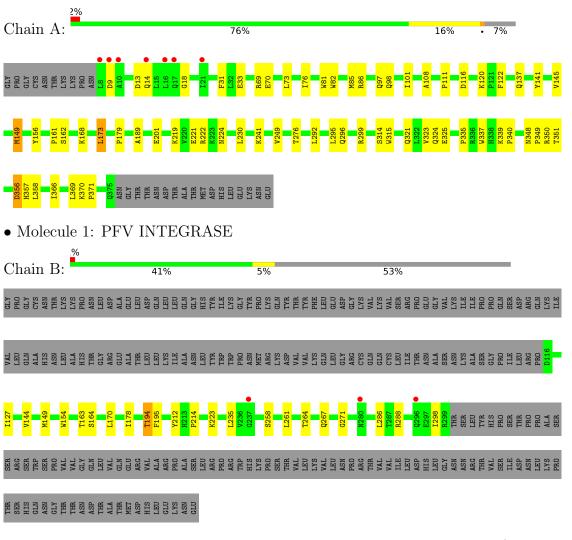
• Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	157	Total O 157 157	0	0
9	В	33	Total         O           33         33	0	0
9	С	19	Total O 19 19	0	0
9	D	19	Total O 19 19	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: PFV INTEGRASE

 $\bullet$  Molecule 2: 19 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (NON-TRANSFERRED STRAND)

5%			
Chain C:	68%	21%	11%





T1 A6 A7 A7 A12 A12 C16 C16 C16

• Molecule 3: 17 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (TRANSFERRED STRAND)

Chain D:	65%	29%	6%



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	160.17Å 160.17Å 123.49Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	39.87 - 2.85	Depositor
Resolution (A)	39.87 - 2.85	EDS
% Data completeness	97.9 (39.87-2.85)	Depositor
(in resolution range)	98.0(39.87-2.85)	EDS
R <sub>merge</sub>	0.10	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.03 (at 2.86 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
D D.	0.182 , $0.215$	Depositor
$R, R_{free}$	0.180 , $0.214$	DCC
$R_{free}$ test set	1881 reflections $(5.03\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	60.2	Xtriage
Anisotropy	0.295	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , $42.2$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	5372	wwPDB-VP
Average B, all atoms $(Å^2)$	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.54% 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: SO4, GOL, 19C, ZN, MG

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	Bo	nd lengths	Bond angles	
	Mol Chain		# Z  > 5	RMSZ	# Z  > 5
1	А	0.62	0/2999	0.74	0/4094
1	В	0.62	1/1463~(0.1%)	0.69	0/2003
2	С	0.51	0/433	1.09	4/667~(0.6%)
3	D	0.44	0/387	1.11	5/595~(0.8%)
All	All	0.60	1/5282~(0.0%)	0.80	9/7359~(0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	154	TRP	CD2-CE2	5.13	1.47	1.41

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	D	1	DT	P-O3'-C3'	7.61	128.83	119.70
2	С	11	DA	P-O3'-C3'	7.32	128.48	119.70
3	D	12	DA	P-O3'-C3'	7.11	128.23	119.70
2	С	1	DA	P-O3'-C3'	6.18	127.11	119.70
3	D	8	DT	P-O3'-C3'	6.08	126.99	119.70

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	2920	0	2945	46	0
1	В	1423	0	1384	10	0
2	С	387	0	218	3	0
3	D	345	0	193	2	0
4	А	1	0	0	0	0
5	А	10	0	0	0	0
5	В	5	0	0	0	0
6	А	24	0	32	5	0
6	В	6	0	8	0	0
7	А	2	0	0	0	0
8	А	21	0	10	0	0
9	А	157	0	0	6	1
9	В	33	0	0	0	0
9	С	19	0	0	0	0
9	D	19	0	0	0	0
All	All	5372	0	4790	57	1

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 6.

The worst 5 of 57 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:ASP:HB2	6:A:1384:GOL:H12	1.62	0.80
1:B:264:THR:OG1	1:B:267:GLN:HG3	1.90	0.71
1:A:292:LEU:O	1:A:296:GLN:HG3	1.91	0.70
1:A:162:SER:HB2	6:A:1377:GOL:H2	1.75	0.69
1:A:69:ARG:HD2	1:A:70:GLU:OE2	1.93	0.69

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)	
9:A:2009:HOH:O	9:A:2103:HOH:O[8_554]	2.13	0.07	



### 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	ntiles
1	А	366/395~(93%)	345~(94%)	18~(5%)	3~(1%)	19	46
1	В	182/395~(46%)	171 (94%)	10 (6%)	1 (0%)	29	57
All	All	548/790~(69%)	516 (94%)	28~(5%)	4 (1%)	22	50

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type	
1	A 14		GLN	
1	А	18	GLY	
1	А	201	GLU	
1	В	298	ILE	

#### 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	А	327/354~(92%)	320~(98%)	7 (2%)	53 79		
1	В	154/354~(44%)	148 (96%)	6 (4%)	32 63		
All	All	481/708~(68%)	468~(97%)	13 (3%)	44 74		

5 of 13 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	В	149	MET
1	В	164	SER

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Mol	Iol Chain Re		Type	
1	В	288	ARG	
1	В	235	LEU	
1	В	286	LEU	

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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 12 ligands modelled in this entry, 3 are monoatomic - leaving 9 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 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
10101	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
5	SO4	А	1383	-	$4,\!4,\!4$	0.54	0	$6,\!6,\!6$	0.30	0
6	GOL	А	1379	-	$5,\!5,\!5$	0.26	0	$5,\!5,\!5$	0.42	0
6	GOL	А	1378	-	$5,\!5,\!5$	0.22	0	$5,\!5,\!5$	0.80	0
6	GOL	А	1384	-	$5,\!5,\!5$	0.33	0	$5,\!5,\!5$	0.97	0
8	19C	А	1382	7	23,23,23	1.59	4 (17%)	32,34,34	2.43	9 (28%)
6	GOL	А	1377	-	$5,\!5,\!5$	0.57	0	$5,\!5,\!5$	0.75	0
5	SO4	В	1300	-	4,4,4	0.48	0	$6,\!6,\!6$	0.26	0



Mol	Type Cha	Chain	Res	Link	Bo	ond leng	$\mathbf{ths}$	В	ond ang	les
IVIOI	туре	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
5	SO4	А	1376	-	4,4,4	0.39	0	$6,\!6,\!6$	0.25	0
6	GOL	В	1301	-	$5,\!5,\!5$	0.42	0	$5,\!5,\!5$	0.46	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
6	GOL	А	1379	-	-	0/4/4/4	-
6	GOL	А	1384	-	-	0/4/4/4	-
6	GOL	А	1378	-	-	4/4/4/4	-
8	19C	А	1382	7	-	0/4/16/16	0/3/3/3
6	GOL	А	1377	-	-	4/4/4/4	-
6	GOL	В	1301	-	-	0/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
8	А	1382	19C	CAT-CAM	-4.84	1.40	1.49
8	А	1382	19C	CAL-CAS	2.99	1.54	1.50
8	А	1382	19C	CAM-NAU	-2.88	1.31	1.36
8	А	1382	19C	CAK-NAU	-2.64	1.42	1.46

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
8	А	1382	19C	CAT-CAM-NAU	6.91	111.62	106.41
8	А	1382	19C	CAG-CAO-CAQ	-6.33	115.59	121.32
8	А	1382	19C	CAJ-CAQ-CAO	5.69	125.44	119.77
8	А	1382	19C	CAK-NAU-CAL	3.20	125.72	122.36
8	А	1382	19C	CAQ-CAJ-CAR	-3.10	118.34	120.46

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	А	1377	GOL	C1-C2-C3-O3
6	А	1377	GOL	O2-C2-C3-O3
6	А	1378	GOL	O1-C1-C2-C3
6	А	1378	GOL	C1-C2-C3-O3

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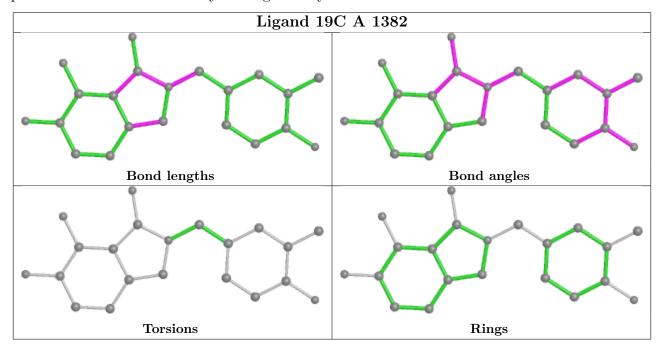
Mol	Chain	Res	Type	Atoms
6	А	1378	GOL	O2-C2-C3-O3

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	А	1378	GOL	1	0
6	А	1384	GOL	3	0
6	А	1377	GOL	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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	368/395~(93%)	-0.32	7 (1%) 66 64	33, 48, 91, 126	0
1	В	184/395~(46%)	-0.27	3 (1%) 72 70	38, 57, 124, 161	0
2	С	19/19~(100%)	-0.40	1 (5%) 26 22	37, 53, 79, 117	0
3	D	17/17~(100%)	-0.45	0 100 100	41, 46, 112, 117	0
All	All	588/826~(71%)	-0.31	11 (1%) 66 64	33, 50, 106, 161	0

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	RSRZ
1	В	280	ASN	3.8
1	В	237	GLY	3.2
1	В	296	GLN	3.0
1	А	17	GLN	2.9
1	А	9	ASP	2.5

### 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.

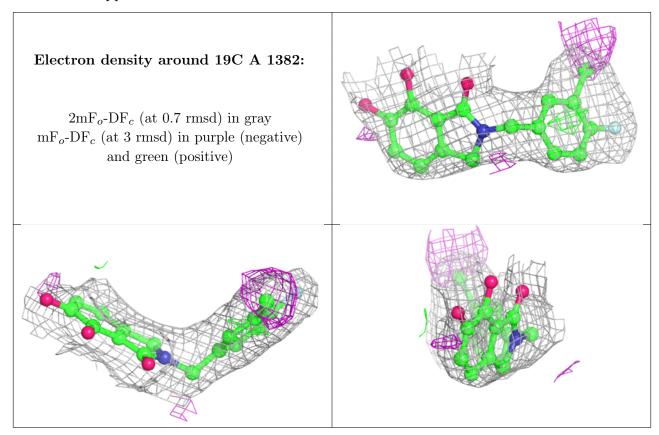
#### 6.4 Ligands (i)

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( $Å^2$ )	$\mathbf{Q} {<} 0.9$
6	GOL	А	1377	6/6	0.84	0.23	69,76,81,84	0
6	GOL	А	1379	6/6	0.85	0.25	72,82,83,90	0
6	GOL	А	1384	6/6	0.89	0.33	71,81,89,107	0
6	GOL	В	1301	6/6	0.92	0.43	$63,\!66,\!68,\!75$	0
6	GOL	А	1378	6/6	0.93	0.18	58,65,79,83	0
8	19C	А	1382	21/21	0.95	0.19	38,56,75,76	0
5	SO4	В	1300	5/5	0.96	0.14	71,81,82,85	0
7	MG	А	1380	1/1	0.97	0.05	42,42,42,42	0
5	SO4	А	1383	5/5	0.97	0.16	$56,\!57,\!62,\!63$	5
7	MG	А	1381	1/1	0.98	0.07	47,47,47,47	0
5	SO4	А	1376	5/5	0.98	0.13	72,76,83,90	0
4	ZN	А	393	1/1	1.00	0.12	46,46,46,46	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.

