

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

#### Jan 3, 2024 – 09:03 pm GMT

PDB ID	:	5G1C
Title	:	Structure of HDAC like protein from Bordetella Alcaligenes bound the photo-
		switchable pyrazole Inhibitor CEW395
Authors	:	Kraemer, A.; Meyer-Almes, F.J.; Yildiz, O.
Deposited on	:	2016-03-24
Resolution	:	1.81 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:

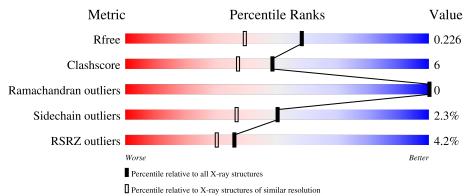
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & 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 1.81 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	7484 (1.84-1.80)
Clashscore	141614	8401 (1.84-1.80)
Ramachandran outliers	138981	8290 (1.84-1.80)
Sidechain outliers	138945	8290 (1.84-1.80)
RSRZ outliers	127900	7371 (1.84-1.80)

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	370	3% 91%	9%
1	В	370	88%	11% •

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	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	PEG	В	375	-	-	-	Х
6	PEG	В	377	-	-	Х	Х



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 6742 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 HISTONE DEACETYLASE-LIKE AMIDOHYDROLASE.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	370	Total	С	Ν	0	S	0	4	0
	A	370	2818	1768	511	521	18	0		
1	В	370	Total	С	Ν	0	S	0	2	0
	D	570	2804	1757	508	521	18	0	J	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	0	HIS	-	expression tag	UNP Q70I53
А	1	HIS	-	expression tag	UNP Q70I53
А	251	PRO	HIS	conflict	UNP Q70I53
В	0	HIS	-	expression tag	UNP Q70I53
В	1	HIS	-	expression tag	UNP Q70I53
В	251	PRO	HIS	conflict	UNP Q70I53

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Zn 1 1	0	0
2	В	1	Total Zn 1 1	0	0

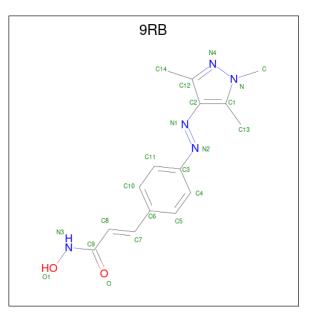
• Molecule 3 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total K 2 2	0	0
3	В	2	Total K 2 2	0	0

• Molecule 4 is (2E)-N-hydroxy-3-{4-[(E)-(1,3,5-trimethyl-1H-pyrazol-4-yl)diazenyl]phenyl}pr

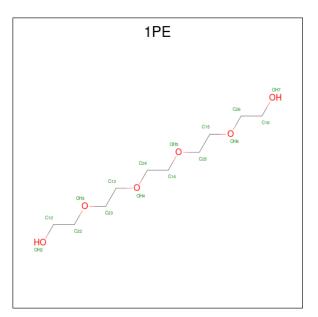


op-2-enamide (three-letter code: 9RB) (formula:  $C_{15}H_{17}N_5O_2$ ).



Μ	ol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	1	А	1	Total 22				0	0
4	1	В	1	Total 22				0	0

• Molecule 5 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula:  $C_{10}H_{22}O_6$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	А	1	Total 16	C 10	O 6	0	0

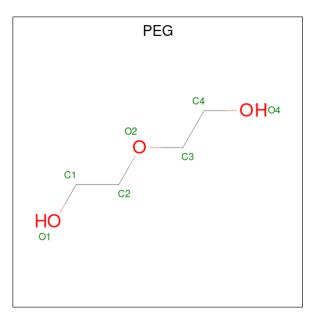
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Mo	bl	Chain	Residues	Atoms			ZeroOcc	AltConf
5		В	1	Total 16	C 10	O 6	0	0

• Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula:  $C_4H_{10}O_3$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0
6	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 4 & 3 \end{array}$	0	0

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	495	Total         O           495         495	0	0

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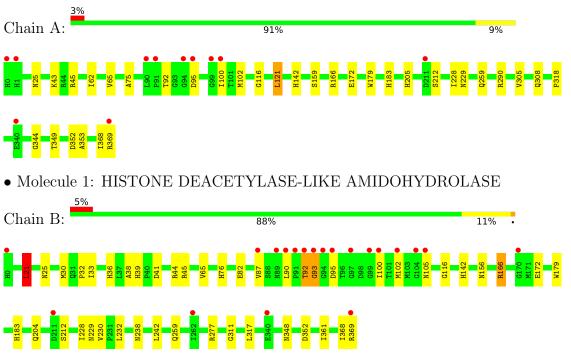
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	494	Total O 494 494	0	0



# 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: HISTONE DEACETYLASE-LIKE AMIDOHYDROLASE





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 42 21 2	Depositor
Cell constants	101.10Å 101.10Å 175.06Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	87.55 - 1.81	Depositor
Resolution (A)	31.45 - 1.81	EDS
% Data completeness	99.8 (87.55-1.81)	Depositor
(in resolution range)	99.8 (31.45 - 1.81)	EDS
R <sub>merge</sub>	0.14	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$5.11 (at 1.82 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
B B.	0.171 , $0.219$	Depositor
$R, R_{free}$	0.183 , $0.226$	DCC
$R_{free}$ test set	4154 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	13.0	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35 , $46.7$	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	6742	wwPDB-VP
Average B, all atoms $(Å^2)$	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 61.11 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.3762e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<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: PEG, K, 1PE, 9RB, ZN

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		
		RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.53	0/2889	0.77	3/3937~(0.1%)	
1	В	0.55	0/2874	0.82	6/3918~(0.2%)	
All	All	0.54	0/5763	0.80	9/7855~(0.1%)	

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.

$\mathbf{N}$	lol	Chain	#Chirality outliers	#Planarity outliers
	1	В	1	0

There are no bond length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	166	ARG	NE-CZ-NH1	13.04	126.82	120.30
1	В	166	ARG	NE-CZ-NH2	-12.28	114.16	120.30
1	А	166	ARG	NE-CZ-NH1	7.18	123.89	120.30
1	А	166	ARG	NE-CZ-NH2	-6.31	117.15	120.30
1	В	92	THR	N-CA-CB	5.29	120.35	110.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	В	92	THR	CA

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	2818	0	2727	26	0
1	В	2804	0	2712	39	0
2	А	1	0	0	0	0
2	В	1	0	0	0	0
3	А	2	0	0	0	0
3	В	2	0	0	0	0
4	А	22	0	0	0	0
4	В	22	0	0	1	0
5	А	16	0	22	0	0
5	В	16	0	22	0	0
6	А	28	0	40	5	0
6	В	21	0	30	4	0
7	А	495	0	0	16	2
7	В	494	0	0	20	0
All	All	6742	0	5553	68	2

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 68 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:B:361:ILE:HG13	7:B:2355:HOH:O	1.19	1.36
1:B:230:VAL:HA	7:B:2355:HOH:O	1.44	1.16
1:A:75:ALA:HB1	7:A:2278:HOH:O	1.46	1.11
1:A:45:ARG:HB3	7:A:2112:HOH:O	1.54	1.07
1:A:43:LYS:HE2	7:A:2104:HOH:O	1.62	0.98

All (2) 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)
7:A:2169:HOH:O	7:A:2356:HOH:O[2_565]	1.86	0.34
7:A:2074:HOH:O	7:A:2112:HOH:O[2_565]	1.96	0.24



### 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	А	372/370~(100%)	360~(97%)	12 (3%)	0	100	100
1	В	371/370~(100%)	358~(96%)	13 (4%)	0	100	100
All	All	743/740~(100%)	718 (97%)	25 (3%)	0	100	100

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	А	287/283~(101%)	282~(98%)	5(2%)	60 50		
1	В	286/283~(101%)	278~(97%)	8 (3%)	43 29		
All	All	573/566~(101%)	560~(98%)	13 (2%)	50 37		

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

Mol	Chain	Res	Type
1	В	82	GLU
1	В	87	VAL
1	В	369	ARG
1	В	166	ARG
1	В	179	TRP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 20 such side chains are listed below:



Mol	Chain	Res	Type
1	В	224	HIS
1	В	259	GLN
1	В	348	ASN
1	В	287	GLN
1	А	229	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 17 ligands modelled in this entry, 6 are monoatomic - leaving 11 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	Mol Type Chain		Res	Link	Bo	ond leng	ths	В	ond ang	les
	туре	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
5	1PE	А	374	-	$15,\!15,\!15$	0.55	0	$14,\!14,\!14$	0.47	0
6	PEG	А	375	-	$6,\!6,\!6$	0.46	0	$5,\!5,\!5$	0.57	0
6	PEG	В	375	-	$6,\!6,\!6$	0.47	0	$5,\!5,\!5$	0.68	0
6	PEG	В	377	-	$6,\!6,\!6$	0.47	0	$5,\!5,\!5$	0.91	0
4	9RB	В	373	2	20,23,23	1.11	2 (10%)	25,31,31	2.40	7 (28%)
4	9RB	А	373	2	20,23,23	1.06	0	25,31,31	2.54	8 (32%)
6	PEG	А	376	-	$6,\!6,\!6$	0.41	0	$5,\!5,\!5$	0.62	0
6	PEG	А	378	-	$6,\!6,\!6$	1.01	0	$5,\!5,\!5$	1.34	0
6	PEG	В	376	-	$6,\!6,\!6$	0.57	0	$5,\!5,\!5$	0.69	0



Mal	Mol Type Chain I		Res Link		Bond lengths			Bond angles		
IVIOI	туре	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
5	1PE	В	374	-	15,15,15	0.49	0	14,14,14	0.39	0
6	PEG	А	377	-	6,6,6	0.43	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
5	1PE	А	374	-	-	3/13/13/13	-
6	PEG	А	375	-	-	1/4/4/4	-
6	PEG	В	375	-	-	2/4/4/4	-
6	PEG	В	377	-	-	2/4/4/4	-
4	9RB	В	373	2	-	0/10/12/12	0/2/2/2
4	9RB	А	373	2	-	2/10/12/12	0/2/2/2
6	PEG	А	376	-	-	2/4/4/4	-
6	PEG	А	378	-	-	3/4/4/4	-
6	PEG	В	376	-	-	4/4/4/4	-
5	1PE	В	374	-	-	4/13/13/13	-
6	PEG	А	377	-	-	2/4/4/4	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	В	373	9RB	C1-N	-2.33	1.34	1.37
4	В	373	9RB	O-C9	-2.26	1.20	1.24

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	А	373	9RB	C2-C1-N	-7.86	102.01	107.86
4	В	373	9RB	C12-N4-N	7.05	110.41	104.35
4	В	373	9RB	C2-C1-N	-6.28	103.19	107.86
4	А	373	9RB	C12-N4-N	6.16	109.65	104.35
4	А	373	9RB	C14-C12-N4	3.46	127.26	119.78

There are no chirality outliers.

5 of 25 torsion outliers are listed below:



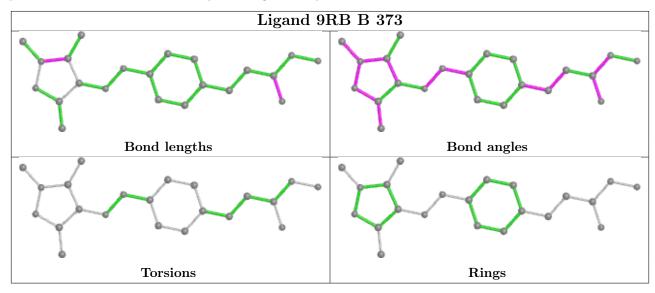
Mol	Chain	Res	Type	Atoms
4	А	373	9RB	C8-C9-N3-O1
5	В	374	1PE	OH6-C15-C25-OH5
6	В	376	PEG	O1-C1-C2-O2
6	А	378	PEG	O1-C1-C2-O2
6	В	377	PEG	C1-C2-O2-C3

There are no ring outliers.

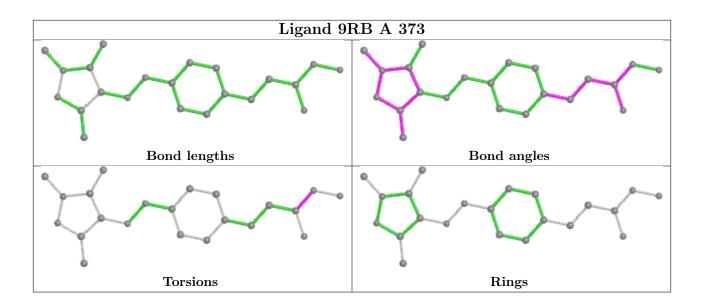
5 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	А	375	PEG	1	0
6	В	377	PEG	4	0
4	В	373	9RB	1	0
6	А	376	PEG	2	0
6	А	378	PEG	2	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	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	370/370~(100%)	0.11	11 (2%) 50 44	5, 12, 26, 41	0
1	В	370/370~(100%)	0.30	20 (5%) 25 20	6, 12, 35, 48	0
All	All	740/740~(100%)	0.20	31 (4%) 36 30	5, 12, 28, 48	0

The worst 5 of 31 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	94	GLY	8.5
1	В	100[A]	ILE	7.1
1	В	90	LEU	7.0
1	А	0	HIS	6.3
1	В	99	GLY	5.9

#### 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)

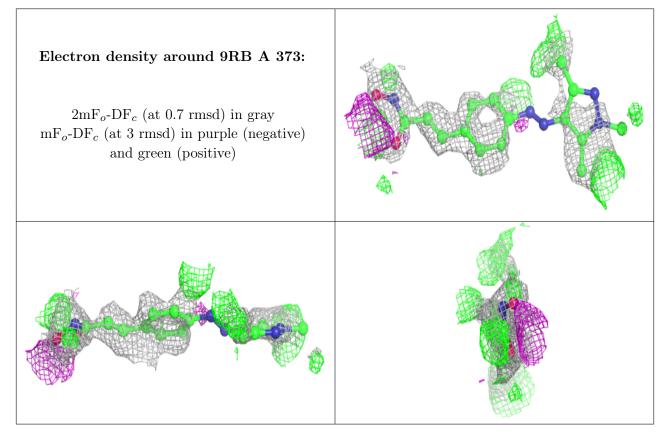
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.



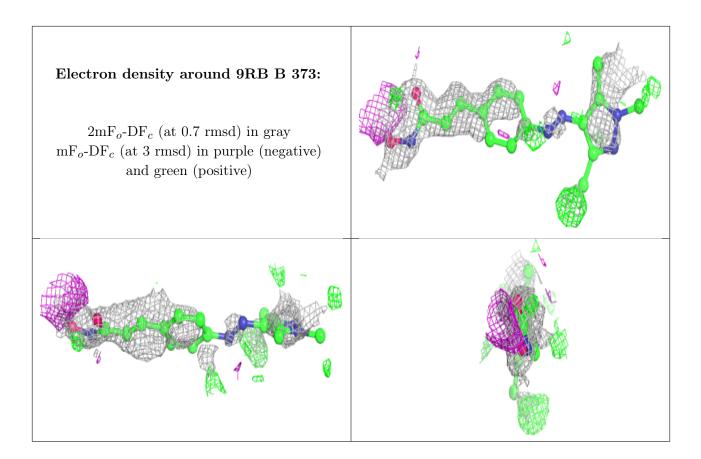
5C	10
ЭG	IU

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	9RB	А	373	22/22	0.54	0.39	15,29,39,40	22
6	PEG	В	375	7/7	0.56	0.55	$37,\!41,\!48,\!53$	0
6	PEG	В	376	7/7	0.62	0.24	38,42,43,43	0
5	1PE	А	374	16/16	0.66	0.30	35,40,48,48	0
6	PEG	А	375	7/7	0.66	0.29	$33,\!35,\!38,\!38$	0
4	9RB	В	373	22/22	0.69	0.39	18,32,39,39	22
6	PEG	В	377	7/7	0.73	0.48	22,23,27,28	0
6	PEG	А	378	7/7	0.75	0.27	18,20,21,22	0
5	1PE	В	374	16/16	0.80	0.18	32,35,41,43	0
6	PEG	А	376	7/7	0.81	0.26	18,22,30,37	0
6	PEG	А	377	7/7	0.90	0.13	24,24,26,26	0
2	ZN	В	370	1/1	0.99	0.14	20,20,20,20	1
2	ZN	А	370	1/1	0.99	0.12	16,16,16,16	1
3	Κ	В	372	1/1	1.00	0.03	11,11,11,11	0
3	Κ	А	371	1/1	1.00	0.03	11,11,11,11	0
3	Κ	А	372	1/1	1.00	0.03	11,11,11,11	0
3	Κ	В	371	1/1	1.00	0.03	12,12,12,12	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.

