

Full wwPDB X-ray Structure Validation Report (i)

Nov 9, 2024 – 12:04 pm GMT

PDB ID : 1H08

Title: CDK2 in complex with a disubstituted 2, 4-bis anilino pyrimidine CDK4 in-

hibitor

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Deposited on : 2002-06-11

Resolution : 1.80 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 541be (2020)

Xtriage (Phenix) : 1.13 EDS : 3.0

---- 1 1 7 (0)

buster-report : 1.1.7 (2018)

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.003 (Gargrove)

Density-Fitness : 1.0.11

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

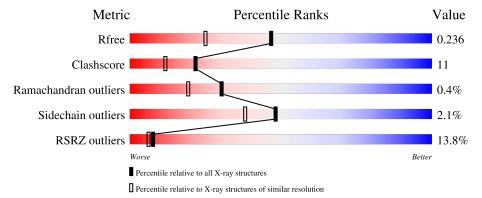
Validation Pipeline (wwPDB-VP) : 2.39

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 1.80 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(\mathring{A}))$
R_{free}	164625	7108 (1.80-1.80)
Clashscore	180529	8162 (1.80-1.80)
Ramachandran outliers	177936	8077 (1.80-1.80)
Sidechain outliers	177891	8076 (1.80-1.80)
RSRZ outliers	164620	7108 (1.80-1.80)

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		
			13%		
1	A	299	79%	14%	• 5%



2 Entry composition (i)

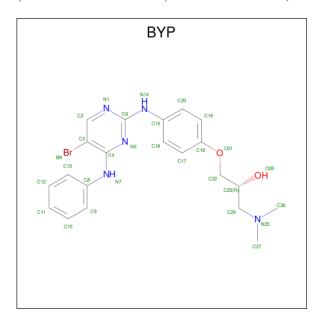
There are 5 unique types of molecules in this entry. The entry contains 2490 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CELL DIVISION PROTEIN KINASE 2.

Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	Trace
1	A	284	Total 2247	C 1468	N 377	O 393	S 9	0	2	0

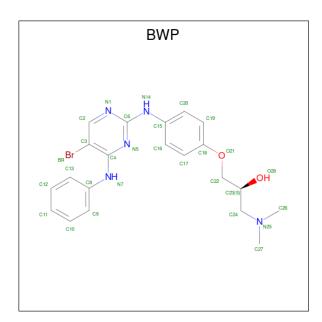
• Molecule 2 is (2R)-1-{4-[(4-ANILINO-5-BROMOPYRIMIDIN-2-YL)AMINO]PHENOXY}-3 -(DIMETHYLAMINO)PROPAN-2-OL (three-letter code: BYP) (formula: C₂₁H₂₄BrN₅O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
2	A	1	Total 29	Br 1	C 21	N 5	O 2	0	1

• Molecule 3 is (2S)-1-{4-[(4-ANILINO-5-BROMOPYRIMIDIN-2-YL)AMINO]PHE NOXY}-3-(DIMETHYLAMINO)PROPAN-2-OL (three-letter code: BWP) (formula: $C_{21}H_{24}BrN_5O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
9	Λ	1	Total	Br	С	N	О	0	1
3	A	1	29	1	21	5	2	U	1

 \bullet Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 6 3 3	0	0

• Molecule 5 is water.



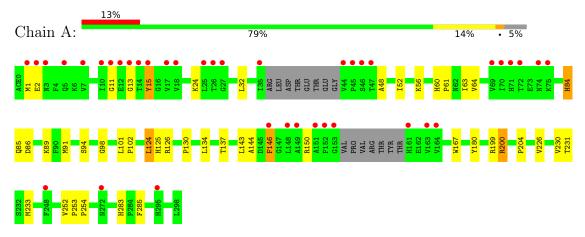
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	179	Total O 179 179	0	0



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: CELL DIVISION PROTEIN KINASE 2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	53.22Å 71.90Å 72.01Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	36.78 - 1.80	Depositor
rtesolution (A)	36.78 - 1.80	EDS
% Data completeness	99.3 (36.78-1.80)	Depositor
(in resolution range)	99.3 (36.78-1.80)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.72 (at 1.79Å)	Xtriage
Refinement program	CNX 2000.1	Depositor
Ρ. Р.	0.213 , 0.242	Depositor
R, R_{free}	0.213 , 0.236	DCC
R_{free} test set	1303 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	27.9	Xtriage
Anisotropy	0.042	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36 , 42.6	EDS
L-test for twinning ²	$< L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.022 for -h,l,k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2490	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.46% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities 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: GOL, ACE, BYP, BWP

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
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.31	0/2313	0.57	0/3142

There are no bond length outliers.

There are no bond angle outliers.

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	A	2247	0	2265	49	0
2	A	29	0	24	2	0
3	A	29	0	24	2	0
4	A	6	0	8	0	0
5	A	179	0	0	4	0
All	All	2490	0	2321	49	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 11.

All (49) 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:124:LEU:HD13	1:A:126:ARG:HG3	1.49	0.93
1:A:124:LEU:HD11	1:A:126:ARG:CZ	2.03	0.87
1:A:200:ARG:HG3	1:A:200:ARG:NH1	1.90	0.87
1:A:283:HIS:HD2	1:A:285:PHE:H	1.23	0.86
1:A:200:ARG:HG3	1:A:200:ARG:HH11	1.45	0.81
1:A:15:TYR:CD1	1:A:15:TYR:N	2.48	0.79
1:A:230:VAL:O	1:A:233[B]:MET:HG3	1.85	0.76
1:A:143:LEU:HD13	1:A:146:PHE:HE2	1.51	0.75
1:A:125:HIS:O	1:A:126:ARG:HB2	1.87	0.74
1:A:200:ARG:HH11	1:A:200:ARG:CG	1.99	0.73
1:A:283:HIS:CD2	1:A:285:PHE:H	2.10	0.68
1:A:84:HIS:HD2	1:A:137:THR:HG23	1.59	0.68
1:A:89:LYS:HD2	2:A:299[A]:BYP:H241	1.75	0.67
1:A:15:TYR:H	1:A:15:TYR:HD1	1.45	0.63
1:A:86:ASP:OD1	3:A:300[B]:BWP:H241	1.98	0.62
1:A:124:LEU:HD11	1:A:126:ARG:NE	2.14	0.62
1:A:124:LEU:CD1	1:A:126:ARG:HG3	2.27	0.62
1:A:56:LYS:O	1:A:56:LYS:HD3	1.99	0.61
1:A:2:GLU:O	1:A:24:LYS:HD2	2.00	0.60
1:A:60:HIS:CG	1:A:61:PRO:HD2	2.37	0.59
1:A:143:LEU:HD13	1:A:146:PHE:CE2	2.36	0.56
1:A:124:LEU:HD13	1:A:126:ARG:CG	2.29	0.56
1:A:253:PRO:HB2	1:A:254:PRO:HD3	1.87	0.56
1:A:89:LYS:HE3	5:A:2008:HOH:O	2.07	0.54
1:A:91:MET:HE2	1:A:130:PRO:HB3	1.91	0.53
1:A:84:HIS:N	1:A:84:HIS:ND1	2.58	0.52
1:A:226[A]:VAL:HG21	5:A:2133:HOH:O	2.10	0.51
1:A:125:HIS:O	1:A:126:ARG:CB	2.58	0.51
1:A:252:VAL:O	1:A:252:VAL:HG23	2.12	0.49
1:A:11:GLY:HA3	2:A:299[A]:BYP:H12	1.95	0.49
1:A:11:GLY:HA3	3:A:300[B]:BWP:H12	1.95	0.49
1:A:124:LEU:HD11	1:A:126:ARG:NH2	2.25	0.49
1:A:84:HIS:CD2	1:A:137:THR:H	2.31	0.49
1:A:48:ALA:O	1:A:52:ILE:HG12	2.15	0.47
1:A:1:MET:SD	1:A:32:LEU:HD21	2.54	0.47
1:A:64:VAL:HG21	1:A:134:LEU:HD12	1.97	0.47
1:A:124:LEU:CD1	1:A:126:ARG:NE	2.79	0.46
1:A:64:VAL:HG21	1:A:144:ALA:HB2	1.98	0.46
1:A:63:ILE:HD13	1:A:143:LEU:HB2	1.98	0.45
1:A:150:ARG:O	1:A:150:ARG:HG2	2.16	0.44
1:A:167:TRP:CD1	1:A:204:PRO:HA	2.53	0.43
1:A:101:LEU:HB3	1:A:102:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic	Clash	
7100111-1	7100111-2	distance (Å)	overlap (Å) 0.43 0.43 0.42 0.42 0.42 0.42 0.41	
1:A:85:GLN:HG3	5:A:2029:HOH:O	2.17	0.43	
1:A:199:ARG:HD2	5:A:2101:HOH:O	2.18	0.43	
1:A:91:MET:CE	1:A:130:PRO:HB3	2.49	0.42	
1:A:126:ARG:HH11	1:A:180:TYR:HE1	1.68	0.42	
1:A:84:HIS:CD2	1:A:137:THR:HG23	2.45	0.42	
1:A:94:SER:O	1:A:98:GLY:N	2.43	0.41	
1:A:230:VAL:HG13	1:A:231:THR:N	2.36	0.41	

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	280/299 (94%)	272 (97%)	7 (2%)	1 (0%)	30 19

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	13	GLY

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	242/263 (92%)	237 (98%)	5 (2%)	48 38	



All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	TYR
1	A	84	HIS
1	A	124	LEU
1	A	146	PHE
1	A	200	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	84	HIS
1	A	283	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

3 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	Trus	Chain	Res	Link	В	ond leng	gths	В	ond ang	les
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GOL	A	301	-	5, 5, 5	0.44	0	5,5,5	0.23	0
3	BWP	A	300[B]	-	31,31,31	2.20	14 (45%)	38,41,41	1.21	4 (10%)
2	BYP	A	299[A]	-	31,31,31	2.18	13 (41%)	38,41,41	1.10	3 (7%)

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
4	GOL	A	301	-	-	0/4/4/4	-
3	BWP	A	300[B]	-	-	6/17/17/17	0/3/3/3
2	BYP	A	299[A]	-	-	3/17/17/17	0/3/3/3

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
2	A	299[A]	BYP	C4-N7	5.30	1.46	1.36
3	A	300[B]	BWP	C4-N7	5.30	1.46	1.36
2	A	299[A]	BYP	C6-N14	4.38	1.45	1.36
3	A	300[B]	BWP	C6-N14	4.38	1.45	1.36
2	A	299[A]	BYP	C20-C15	2.89	1.44	1.39
3	A	300[B]	BWP	C20-C15	2.89	1.44	1.39
2	A	299[A]	BYP	C17-C18	2.80	1.44	1.38
3	A	300[B]	BWP	C17-C18	2.80	1.44	1.38
2	A	299[A]	BYP	C15-N14	2.80	1.47	1.40
3	A	300[B]	BWP	C15-N14	2.80	1.47	1.40
2	A	299[A]	BYP	C13-C8	2.68	1.43	1.39
3	A	300[B]	BWP	C13-C8	2.68	1.43	1.39
2	A	299[A]	BYP	C2-C3	2.63	1.43	1.38
3	A	300[B]	BWP	C2-C3	2.63	1.43	1.38
2	A	299[A]	BYP	C8-N7	2.45	1.46	1.40
3	A	300[B]	BWP	C8-N7	2.45	1.46	1.40
3	A	300[B]	BWP	C24-N25	2.37	1.53	1.46
3	A	300[B]	BWP	C24-C23	2.30	1.57	1.52
2	A	299[A]	BYP	C9-C8	2.30	1.43	1.39
3	A	300[B]	BWP	C9-C8	2.30	1.43	1.39
2	A	299[A]	BYP	C19-C18	2.26	1.43	1.38
3	A	300[B]	BWP	C19-C18	2.26	1.43	1.38
2	A	299[A]	BYP	C24-C23	2.22	1.57	1.52
2	A	299[A]	BYP	O21-C18	2.11	1.42	1.37

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
3	A	300[B]	BWP	O21-C18	2.11	1.42	1.37
2	A	299[A]	BYP	C16-C17	2.06	1.42	1.38
3	A	300[B]	BWP	C16-C17	2.06	1.42	1.38

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
3	A	300[B]	BWP	C23-C24-N25	3.28	118.74	112.41
3	A	300[B]	BWP	C26-N25-C24	2.39	117.28	111.01
2	A	299[A]	BYP	C23-C24-N25	2.38	116.99	112.41
2	A	299[A]	BYP	C8-N7-C4	2.31	135.20	129.39
3	A	300[B]	BWP	C8-N7-C4	2.31	135.20	129.39
2	A	299[A]	BYP	BR-C3-C4	2.02	122.17	120.15
3	A	300[B]	BWP	BR-C3-C4	2.02	122.17	120.15

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	300[B]	BWP	C22-C23-C24-N25
3	A	300[B]	BWP	O28-C23-C24-N25
3	A	300[B]	BWP	C23-C24-N25-C26
2	A	299[A]	BYP	O21-C22-C23-C24
2	A	299[A]	BYP	C17-C18-O21-C22
3	A	300[B]	BWP	C17-C18-O21-C22
2	A	299[A]	BYP	C19-C18-O21-C22
3	A	300[B]	BWP	C19-C18-O21-C22
3	A	300[B]	BWP	C23-C24-N25-C27

There are no ring outliers.

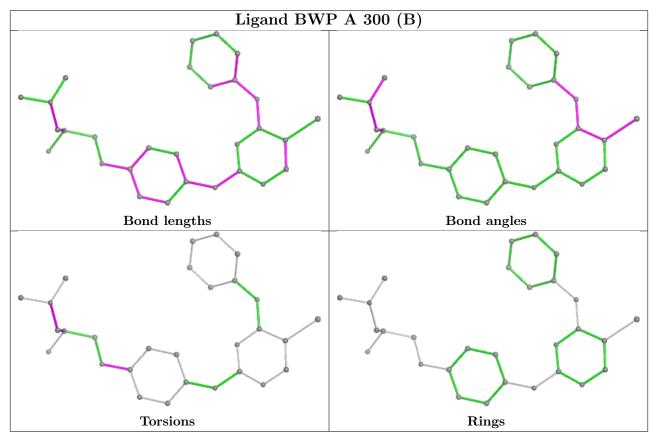
2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	300[B]	BWP	2	0
2	A	299[A]	BYP	2	0

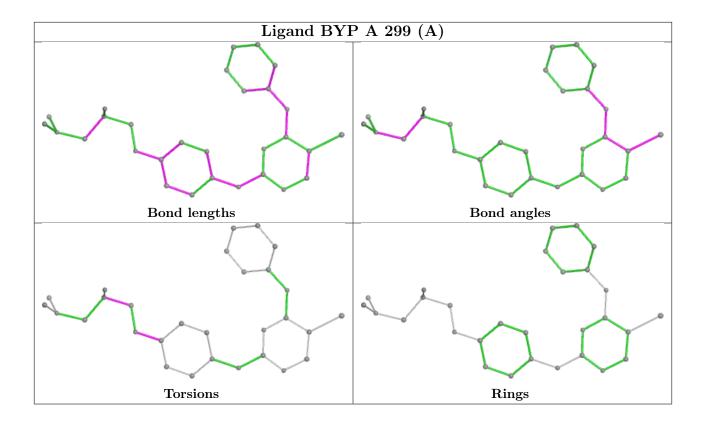
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	283/299 (94%)	0.51	39 (13%) 8 6	15, 29, 61, 69	2 (0%)

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	46	SER	5.2
1	A	152	PHE	4.3
1	A	146	PHE	4.0
1	A	1	MET	3.8
1	A	13	GLY	3.7
1	A	74	ASN	3.7
1	A	2	GLU	3.6
1	A	15	TYR	3.6
1	A	153	GLY	3.5
1	A	72	THR	3.5
1	A	164	VAL	3.4
1	A	3	ASN	3.3
1	A	14	THR	3.2
1	A	25	LEU	3.1
1	A	75	LYS	3.1
1	A	45	PRO	3.0
1	A	17	VAL	3.0
1	A	151	ALA	2.9
1	A	272	ASN	2.8
1	A	10	ILE	2.8
1	A	27	GLY	2.8
1	A	70	ILE	2.7
1	A	69	VAL	2.6
1	A	248	PHE	2.5
1	A	18	VAL	2.4
1	A	44	VAL	2.4
1	A	11	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	26	THR	2.3
1	A	163	VAL	2.3
1	A	5	GLN	2.2
1	A	148	LEU	2.2
1	A	161	HIS	2.2
1	A	149	ALA	2.1
1	A	35	ILE	2.1
1	A	47	THR	2.1
1	A	7	VAL	2.1
1	A	71	HIS	2.1
1	A	295	HIS	2.1
1	A	12	GLU	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.

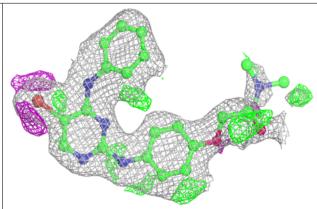
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$ m B ext{-}factors(\AA^2)$	Q<0.9
4	GOL	A	301	6/6	0.80	0.12	52,56,57,57	0
3	BWP	A	300[B]	29/29	0.86	0.17	33,39,47,47	29
2	BYP	A	299[A]	29/29	0.86	0.16	33,39,46,47	29

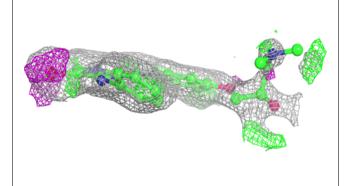
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

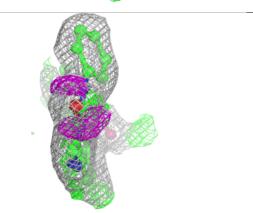


Electron density around BWP A 300 (B):

 $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

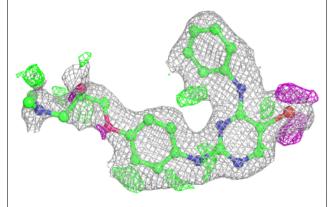


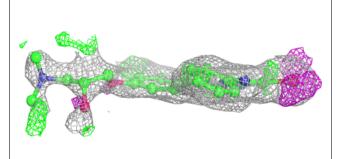


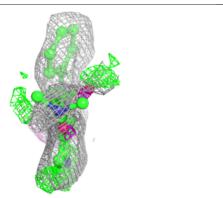


Electron density around BYP A 299 (A):

 $2 {
m mF}_o {
m -DF}_c$ (at 0.7 rmsd) in gray ${
m mF}_o {
m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)









6.5 Other polymers (i)

There are no such residues in this entry.

