

Full wwPDB X-ray Structure Validation Report (i)

May 27, 2025 – 10:43 AM EDT

PDB ID : 9MSX / pdb 00009msx

Title: Candida albicans Hsp90 nucleotide binding domain in complex with TAS116

Authors: Kowalewski, M.E.; Redinbo, M.R.

Deposited on : 2025-01-10

Resolution : 2.50 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 (1)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0rc1

Mogul : 2022.3.0, CSD as 543be (2022)

Xtriage (Phenix) : 2.0rc1

EDS : 3.0

buster-report : 1.1.7 (2018)

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

CCP4 : 9.0.006 (Gargrove)

Density-Fitness : 1.0.12

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

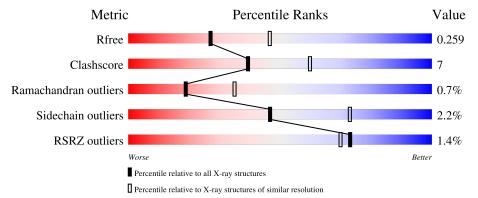
Validation Pipeline (wwPDB-VP) : 2.43.1

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 2.50 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	164625	5504 (2.50-2.50)
Clashscore	180529	6282 (2.50-2.50)
Ramachandran outliers	177936	6191 (2.50-2.50)
Sidechain outliers	177891	6193 (2.50-2.50)
RSRZ outliers	164620	5504 (2.50-2.50)

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	232	77%	15%	8%
1	В	232	79%	12%	• 8%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6743 atoms, of which 3215 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 Heat shock protein 90 homolog.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
1	A	214	Total 3246	C 1066		N 279	O 335	S 5	0	2	0
1	В	214	Total 3265	C 1064	H 1590	N 278	O 328	S 5	0	1	0

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	219	ASN	-	expression tag	UNP P46598
A	220	LEU	_	expression tag	UNP P46598
A	221	TYR	-	expression tag	UNP P46598
A	222	PHE	-	expression tag	UNP P46598
A	223	GLN	-	expression tag	UNP P46598
A	224	SER	-	expression tag	UNP P46598
A	225	GLY	-	expression tag	UNP P46598
A	226	SER	-	expression tag	UNP P46598
A	227	HIS	-	expression tag	UNP P46598
A	228	HIS	-	expression tag	UNP P46598
A	229	HIS	-	expression tag	UNP P46598
A	230	HIS	-	expression tag	UNP P46598
A	231	HIS	-	expression tag	UNP P46598
A	232	HIS	-	expression tag	UNP P46598
В	219	ASN	-	expression tag	UNP P46598
В	220	LEU	-	expression tag	UNP P46598
В	221	TYR	-	expression tag	UNP P46598
В	222	PHE	-	expression tag	UNP P46598
В	223	GLN	-	expression tag	UNP P46598
В	224	SER	-	expression tag	UNP P46598
В	225	GLY	-	expression tag	UNP P46598
В	226	SER	-	expression tag	UNP P46598
В	227	HIS	-	expression tag	UNP P46598
В	228	HIS	-	expression tag	UNP P46598
В	229	HIS	-	expression tag	UNP P46598

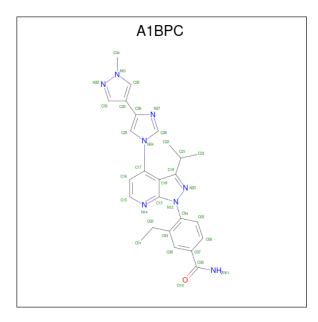
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Chain	Residue	Modelled	Actual	Comment	Reference
В	230	HIS	-	expression tag	UNP P46598
В	231	HIS	-	expression tag	UNP P46598
В	232	HIS	-	expression tag	UNP P46598

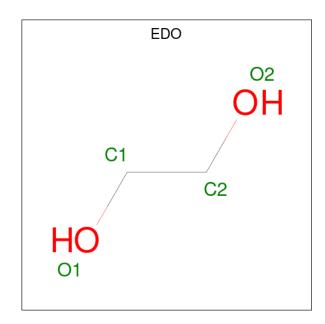
• Molecule 2 is (4P)-3-ethyl-4-[(4P)-4-[(4M)-4-(1-methyl-1H-pyrazol-4-yl)-1H-imidazol-1-y l]-3-(propan-2-yl)-1H-pyrazolo[3,4-b]pyridin-1-yl]benzamide (CCD ID: A1BPC) (formula: $C_{25}H_{26}N_8O$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
2	Λ	1	Total	С	Н	N	О	0	0	
	A	1	60	25	26	8	1	U		
2	D	1	Total	С	Н	N	О	0	0	
	Б	1	60	25	26	8	1	U	0	

• Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	В	1	Total 10			0	0
3	В	1	Total 10		H 6	0	0

• Molecule 4 is water.

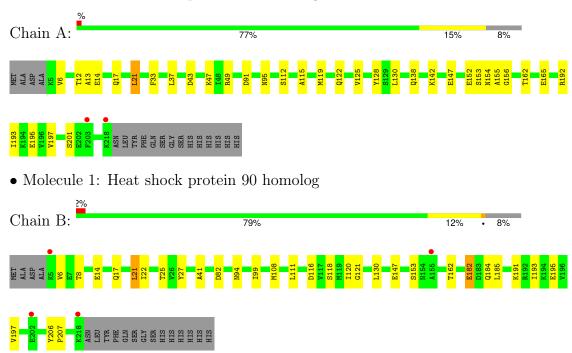
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	41	Total O 41 41	0	0
4	В	51	Total O 51 51	0	0



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: Heat shock protein 90 homolog





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61	Depositor
Cell constants	47.91Å 47.91Å 342.69Å	Donositon
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	57.11 - 2.50	Depositor
Resolution (A)	57.11 - 2.50	EDS
% Data completeness	99.7 (57.11-2.50)	Depositor
(in resolution range)	99.7 (57.11-2.50)	EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.52 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
D.D.	0.177 , 0.257	Depositor
R, R_{free}	0.180 , 0.259	DCC
R_{free} test set	13760 reflections (10.05%)	wwPDB-VP
Wilson B-factor (Å ²)	38.1	Xtriage
Anisotropy	0.561	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39, 47.3	EDS
L-test for twinning ²	$< L >=0.52, < L^2>=0.36$	Xtriage
Estimated twinning fraction	0.087 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6743	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.90% 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: A1BPC, EDO

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.59	0/1717	0.73	0/2319	
1	В	0.54	0/1708	0.73	0/2307	
All	All	0.57	0/3425	0.73	0/4626	

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	1685	1561	1661	22	0
1	В	1675	1590	1656	25	0
2	A	34	26	0	2	0
2	В	34	26	0	0	0
3	В	8	12	12	0	0
4	A	41	0	0	2	1
4	В	51	0	0	2	1
All	All	3528	3215	3329	45	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 7.



All (45) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + 1	A 4 a 2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:B:6:VAL:HA	1:B:162:THR:HG22	1.39	1.03
1:B:6:VAL:CA	1:B:162:THR:HG22	2.20	0.70
1:B:14:GLU:OE2	4:B:401:HOH:O	2.10	0.68
1:B:6:VAL:HG13	1:B:162:THR:CG2	2.25	0.67
1:B:17:GLN:HG2	1:B:108:MET:CE	2.29	0.61
1:B:184:GLN:OE1	4:B:402:HOH:O	2.17	0.58
1:A:49:ARG:NH1	1:B:99:ILE:HD13	2.19	0.58
1:A:115:ALA:HB1	1:A:119:MET:CE	2.35	0.56
1:B:22:ILE:O	1:B:25:THR:HG22	2.05	0.56
1:A:49:ARG:HH12	1:B:99:ILE:HD13	1.72	0.54
1:B:6:VAL:HG22	1:B:162:THR:HG21	1.89	0.54
1:B:17:GLN:HG2	1:B:108:MET:HE1	1.89	0.54
1:A:115:ALA:HB1	1:A:119:MET:HE2	1.89	0.54
1:A:33:PHE:O	1:A:37:LEU:HG	2.07	0.53
1:A:193:ILE:O	1:A:197:VAL:HG23	2.09	0.53
1:A:130:LEU:HD12	1:A:130:LEU:C	2.34	0.52
1:B:191:LYS:HE2	1:B:195:GLU:OE2	2.10	0.52
1:A:192:ARG:O	1:A:195:GLU:HB2	2.11	0.50
1:B:6:VAL:HG22	1:B:162:THR:CG2	2.42	0.50
1:B:116:ASP:OD2	1:B:118:SER:HB3	2.11	0.50
1:A:43:ASP:O	1:A:47:LYS:HG3	2.12	0.49
1:B:193:ILE:O	1:B:197:VAL:HG23	2.12	0.49
1:B:17:GLN:HG2	1:B:108:MET:HE2	1.94	0.49
1:A:91:ASP:HA	1:A:95:ASN:HB2	1.94	0.49
1:A:12:THR:HG22	1:A:14:GLU:H	1.78	0.48
1:A:21:LEU:C	1:A:21:LEU:HD13	2.38	0.47
1:A:119:MET:O	1:A:122:GLN:HG2	2.15	0.47
1:B:191:LYS:O	1:B:195:GLU:HG3	2.15	0.47
1:A:6:VAL:HG22	1:A:162:THR:HG23	1.97	0.46
1:B:206:TYR:HB3	1:B:207:PRO:HD2	1.98	0.45
1:A:13:ALA:O	1:A:17:GLN:HG3	2.17	0.45
1:B:120:ILE:HG23	1:B:121:GLY:N	2.33	0.43
1:B:130:LEU:C	1:B:130:LEU:HD12	2.44	0.43
1:A:125:VAL:HA	2:A:301:A1BPC:C22	2.48	0.42
1:B:182:GLU:O	1:B:185:LEU:HG	2.18	0.42
1:A:201:SER:N	4:A:411:HOH:O	2.52	0.42
1:A:138:GLN:HG2	1:A:152:GLU:HG3	2.02	0.41
1:A:154:ASN:O	1:A:155:ALA:HB3	2.20	0.41
1:B:21:LEU:C	1:B:21:LEU:HD23	2.46	0.41
1:B:111:LEU:HD23	1:B:111:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	$overlap(ext{Å})$
1:B:41:ALA:HB1	1:B:82:ASP:HB3	2.03	0.40
1:A:128:TYR:OH	2:A:301:A1BPC:N27	2.55	0.40
1:A:142:LYS:HG3	4:A:415:HOH:O	2.21	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)
4:A:432:HOH:O	4:B:448:HOH:O[1_565]	1.73	0.47

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	Per	centiles
1	A	$214/232 \ (92\%)$	204 (95%)	9 (4%)	1 (0%)	25	44
1	В	213/232 (92%)	200 (94%)	11 (5%)	2 (1%)	14	28
All	All	$427/464 \ (92\%)$	404 (95%)	20 (5%)	3 (1%)	19	35

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	156	GLY
1	В	94	ASN
1	В	27	TYR

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	186/205 (91%)	182 (98%)	4 (2%)	47 73
1	В	184/205 (90%)	180 (98%)	4 (2%)	47 73
All	All	370/410 (90%)	362 (98%)	8 (2%)	47 73

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	LEU
1	A	112	SER
1	A	153	SER
1	A	165	GLU
1	В	8	THR
1	В	21	LEU
1	В	153	SER
1	В	182	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	17	GLN
1	В	17	GLN
1	В	24	ASN
1	В	51	GLN
1	В	75	GLN

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)

4 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 Type Ch	Chain	Chain Res	es Link	Bond lengths			Bond angles			
MIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	В	303	-	3,3,3	0.25	0	2,2,2	0.52	0
3	EDO	В	301	-	3,3,3	0.36	0	2,2,2	0.17	0
2	A1BPC	В	302	-	30,38,38	2.21	9 (30%)	28,56,56	1.79	6 (21%)
2	A1BPC	A	301	-	30,38,38	2.37	8 (26%)	28,56,56	1.66	7 (25%)

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	EDO	В	303	-	-	1/1/1/1	-
3	EDO	В	301	_	-	1/1/1/1	-
2	A1BPC	В	302	-	-	2/18/22/22	0/5/5/5
2	A1BPC	A	301	_	-	3/18/22/22	0/5/5/5

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
2	A	301	A1BPC	C09-N11	7.11	1.46	1.33
2	A	301	A1BPC	C25-N24	-6.90	1.32	1.39
2	В	302	A1BPC	C09-N11	6.49	1.44	1.33
2	В	302	A1BPC	C25-N24	-6.07	1.33	1.39
2	A	301	A1BPC	C29-C26	3.57	1.54	1.49
2	В	302	A1BPC	C29-C26	3.26	1.54	1.49
2	A	301	A1BPC	C17-N24	3.22	1.50	1.45
2	В	302	A1BPC	N20-N12	-3.02	1.33	1.39
2	A	301	A1BPC	C18-C13	-2.48	1.36	1.43
2	A	301	A1BPC	N20-N12	-2.43	1.34	1.39
2	A	301	A1BPC	C26-N27	-2.31	1.30	1.37

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Mol	Chain	Res	0 1	Atoms	\mathbf{Z}	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(ext{\AA})$
2	В	302	A1BPC	C18-C13	-2.28	1.36	1.43
2	В	302		C28-N24		1.34	1.36
2	В	302	A1BPC	C26-N27	-2.13	1.31	1.37
2	A	301	A1BPC	C28-N24	-2.06	1.34	1.36
2	В	302	A1BPC	O10-C09	-2.02	1.20	1.24
2	В	302	A1BPC	C17-N24	2.01	1.48	1.45

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	302	A1BPC	C08-C03-C04	4.78	119.50	116.39
2	В	302	A1BPC	C15-N14-C13	4.72	122.46	116.81
2	A	301	A1BPC	C15-N14-C13	3.24	120.69	116.81
2	В	302	A1BPC	C23-C21-C19	-3.22	103.51	110.76
2	A	301	A1BPC	C07-C09-N11	-3.06	113.96	117.74
2	A	301	A1BPC	C08-C03-C04	3.06	118.38	116.39
2	В	302	A1BPC	C33-N32-N31	2.97	107.32	104.23
2	A	301	A1BPC	C21-C19-N20	2.96	125.55	120.46
2	A	301	A1BPC	O10-C09-C07	2.83	123.06	119.60
2	В	302	A1BPC	C16-C15-N14	-2.25	121.25	124.60
2	В	302	A1BPC	C05-C04-C03	-2.17	121.22	122.89
2	A	301	A1BPC	C01-C02-C03	-2.15	107.04	114.78
2	A	301	A1BPC	C16-C15-N14	-2.11	121.47	124.60

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	A1BPC	C16-C17-N24-C28
2	A	301	A1BPC	C18-C19-C21-C22
3	В	301	EDO	O1-C1-C2-O2
2	A	301	A1BPC	C16-C17-N24-C25
2	В	302	A1BPC	C16-C17-N24-C25
2	В	302	A1BPC	C16-C17-N24-C28
3	В	303	EDO	O1-C1-C2-O2

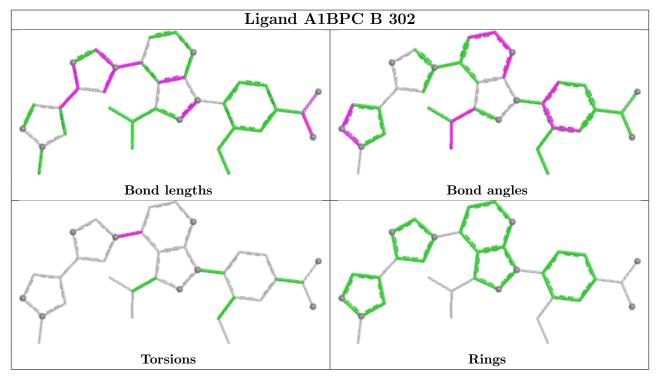
There are no ring outliers.

1 monomer is involved in 2 short contacts:

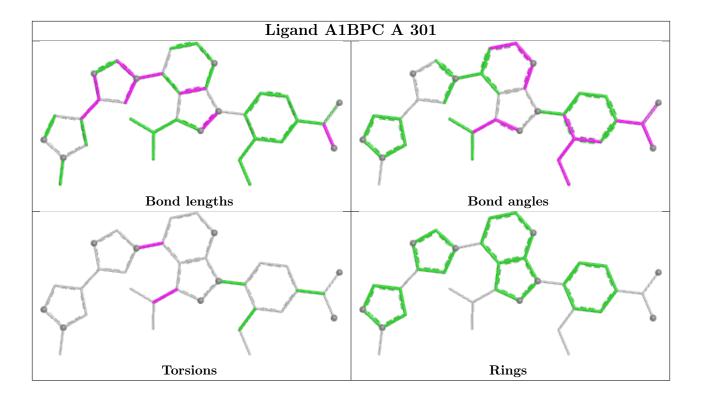
\mathbf{Mol}	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	A1BPC	2	0



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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	$214/232 \ (92\%)$	-0.35	2 (0%) 81 78	24, 41, 65, 84	1 (0%)
1	В	$214/232 \ (92\%)$	-0.29	4 (1%) 66 63	26, 48, 72, 100	0
All	All	428/464 (92%)	-0.32	6 (1%) 73 70	24, 44, 70, 100	1 (0%)

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	218	LYS	4.5
1	В	202	GLU	3.2
1	В	155	ALA	2.7
1	В	5	LYS	2.3
1	В	218	LYS	2.3
1	A	203	PHE	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.

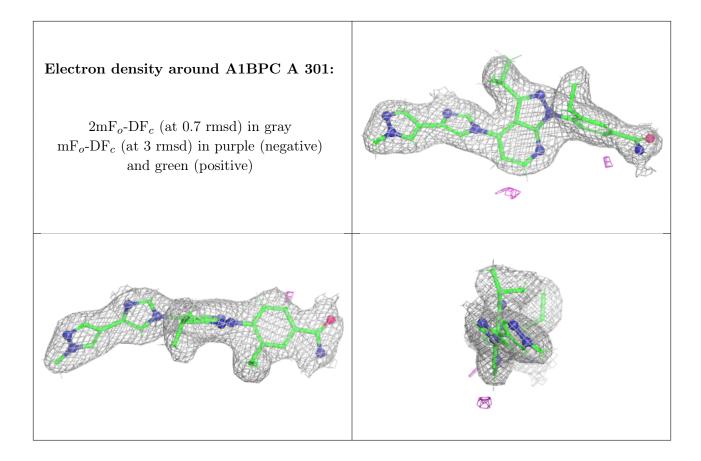


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	EDO	В	301	4/4	0.82	0.13	54,65,80,80	0
3	EDO	В	303	4/4	0.87	0.09	48,58,63,75	0
2	A1BPC	В	302	34/34	0.94	0.08	25,39,50,51	0
2	A1BPC	A	301	34/34	0.95	0.07	20,33,50,55	0

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.

Electron density around A1BPC B 302: 2mF_o-DF_c (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





6.5 Other polymers (i)

There are no such residues in this entry.

