



# Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 07:52 pm BST

PDB ID : 5JF6  
Title : Crystal structure of type 2 PDF from Streptococcus agalactiae in complex with inhibitor 6b (AB47)  
Authors : Fieulaine, S.; Giglione, C.; Meinnel, T.; Hamiche, K.  
Deposited on : 2016-04-19  
Resolution : 1.70 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](mailto: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 ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
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)	:	2.11

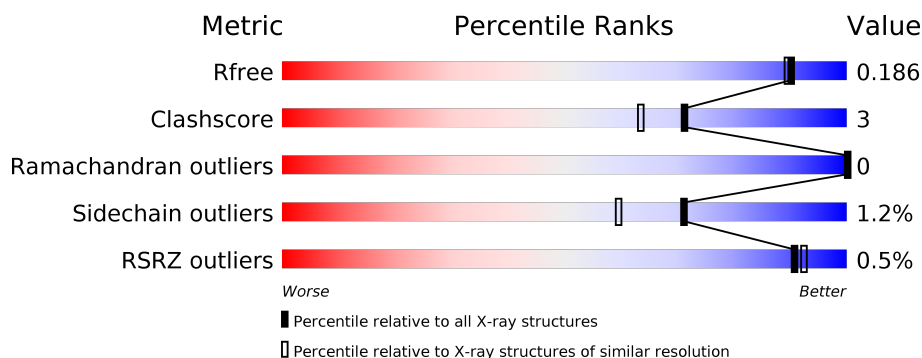
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.70 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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  $\leq 5\%$ . 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	204	 79% 17% ..

## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 2009 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.

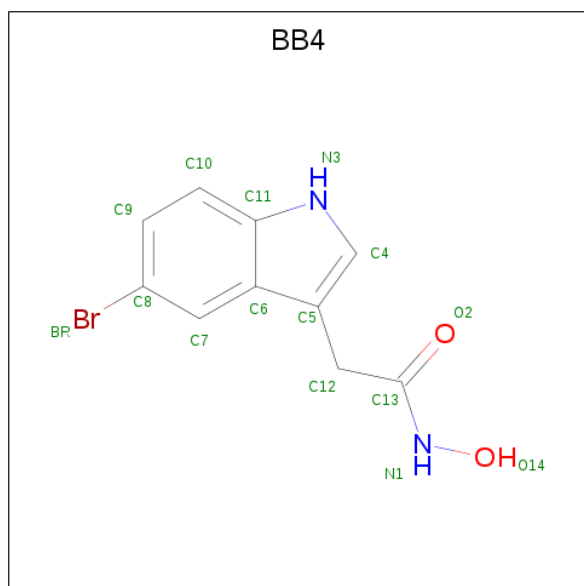
- Molecule 1 is a protein called Peptide deformylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	203	1575	995	269	304	7	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	2	ALA	SER	engineered mutation	UNP Q8E378

- Molecule 2 is 2-(5-bromo-1H-indol-3-yl)-N-hydroxyacetamide (three-letter code: BB4) (formula: C<sub>10</sub>H<sub>9</sub>BrN<sub>2</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	Br	C	N	O		
2	A	1	15	1	10	2	2	0	0

- Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	8	Total	Zn	0	0
			8	8		

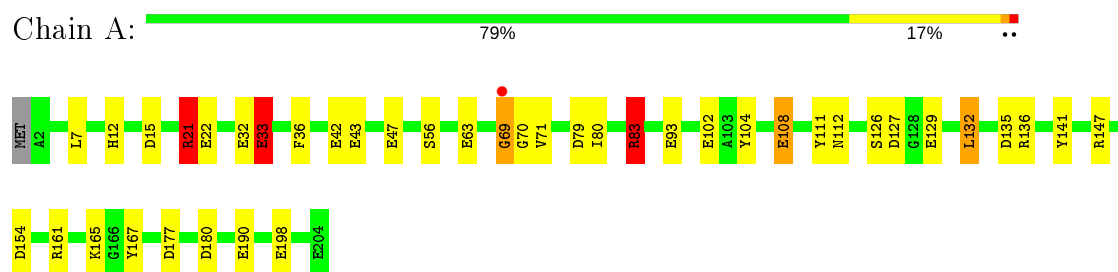
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	407	Total	O	0	0
			407	407		

### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Peptide deformylase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	40.92Å 66.28Å 88.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.15 – 1.70 44.15 – 1.70	Depositor EDS
% Data completeness (in resolution range)	98.6 (44.15-1.70) 98.6 (44.15-1.70)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.06	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	6.09 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, $R_{free}$	0.144 , 0.175 0.155 , 0.186	Depositor DCC
$R_{free}$ test set	1338 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	12.3	Xtriage
Anisotropy	0.127	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 51.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	2009	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.83% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<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.

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, BB4, OCS, ACT

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	A	1.76	30/1592 (1.9%)	1.68	24/2151 (1.1%)

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.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2

All (30) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	42	GLU	CD-OE1	12.31	1.39	1.25
1	A	198	GLU	CD-OE1	10.39	1.37	1.25
1	A	32	GLU	CG-CD	8.20	1.64	1.51
1	A	167	TYR	CB-CG	-8.11	1.39	1.51
1	A	198	GLU	CD-OE2	-8.07	1.16	1.25
1	A	108	GLU	CD-OE2	-7.67	1.17	1.25
1	A	42	GLU	CG-CD	7.14	1.62	1.51
1	A	21	ARG	CD-NE	-6.84	1.34	1.46
1	A	102	GLU	CD-OE2	6.71	1.33	1.25
1	A	129	GLU	CD-OE1	-6.68	1.18	1.25
1	A	108	GLU	CG-CD	6.53	1.61	1.51
1	A	111	TYR	CG-CD1	-6.53	1.30	1.39
1	A	112	ASN	C-O	6.51	1.35	1.23
1	A	198	GLU	CB-CG	-6.44	1.40	1.52
1	A	126	SER	CB-OG	-6.23	1.34	1.42
1	A	22	GLU	CD-OE2	6.19	1.32	1.25
1	A	63	GLU	CG-CD	6.09	1.61	1.51
1	A	83	ARG	NE-CZ	-6.03	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	69	GLY	N-CA	5.92	1.54	1.46
1	A	70	GLY	CA-C	5.80	1.61	1.51
1	A	190	GLU	CD-OE1	5.80	1.32	1.25
1	A	126	SER	CA-CB	5.74	1.61	1.52
1	A	42	GLU	CD-OE2	-5.60	1.19	1.25
1	A	136	ARG	CZ-NH1	5.50	1.40	1.33
1	A	71	VAL	CB-CG2	-5.26	1.41	1.52
1	A	135	ASP	CG-OD1	5.25	1.37	1.25
1	A	104	TYR	CE2-CZ	-5.21	1.31	1.38
1	A	21	ARG	CZ-NH1	5.16	1.39	1.33
1	A	83	ARG	CD-NE	-5.14	1.37	1.46
1	A	165	LYS	N-CA	-5.03	1.36	1.46

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	83	ARG	NE-CZ-NH2	-35.19	102.70	120.30
1	A	21	ARG	NE-CZ-NH2	-17.42	111.59	120.30
1	A	83	ARG	CD-NE-CZ	15.17	144.84	123.60
1	A	21	ARG	NE-CZ-NH1	12.15	126.37	120.30
1	A	108	GLU	OE1-CD-OE2	-9.20	112.26	123.30
1	A	135	ASP	CB-CG-OD2	-8.30	110.83	118.30
1	A	63	GLU	OE1-CD-OE2	-7.97	113.74	123.30
1	A	83	ARG	NH1-CZ-NH2	7.45	127.60	119.40
1	A	132	LEU	CB-CG-CD2	-7.20	98.75	111.00
1	A	47	GLU	OE1-CD-OE2	6.87	131.55	123.30
1	A	127	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	A	15	ASP	CB-CG-OD1	6.38	124.04	118.30
1	A	36	PHE	CB-CG-CD2	-6.32	116.37	120.80
1	A	147	ARG	NE-CZ-NH2	-6.28	117.16	120.30
1	A	180	ASP	CB-CG-OD1	5.47	123.22	118.30
1	A	33	GLU	OE1-CD-OE2	5.46	129.85	123.30
1	A	141	TYR	CB-CG-CD2	-5.43	117.74	121.00
1	A	104	TYR	CZ-CE2-CD2	5.22	124.50	119.80
1	A	104	TYR	CD1-CE1-CZ	-5.17	115.14	119.80
1	A	177	ASP	CB-CG-OD1	5.16	122.94	118.30
1	A	154	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	A	198	GLU	OE1-CD-OE2	5.11	129.43	123.30
1	A	161	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	A	42	GLU	CG-CD-OE1	5.02	128.33	118.30

There are no chirality outliers.



All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	33	GLU	Sidechain
1	A	83	ARG	Sidechain

## 5.2 Too-close contacts

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	1575	0	1567	11	0
2	A	15	0	8	0	0
3	A	4	0	3	0	0
4	A	8	0	0	0	1
5	A	407	0	0	7	6
All	All	2009	0	1578	11	6

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 3.

All (11) 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:12:HIS:CD2	5:A:681:HOH:O	2.38	0.76
1:A:12:HIS:HD2	5:A:681:HOH:O	1.72	0.72
1:A:79:ASP:OD2	5:A:401:HOH:O	2.13	0.67
1:A:7:LEU:HD12	1:A:80:ILE:HD11	1.77	0.66
1:A:43:GLU:OE1	5:A:402:HOH:O	2.15	0.60
1:A:93:GLU:OE1	5:A:403:HOH:O	2.17	0.58
1:A:33:GLU:HG2	1:A:83:ARG:HD2	1.91	0.52
1:A:21:ARG:HD3	5:A:682:HOH:O	2.13	0.47
1:A:21:ARG:NH2	1:A:132:LEU:O	2.51	0.42
1:A:108:GLU:OE2	5:A:404:HOH:O	2.22	0.41
1:A:56:SER:O	1:A:69:GLY:HA2	2.21	0.41

All (6) 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:304:ZN:ZN	5:A:505:HOH:O[2_455]	1.68	0.52
5:A:423:HOH:O	5:A:482:HOH:O[4_545]	1.85	0.35
5:A:661:HOH:O	5:A:667:HOH:O[4_445]	1.85	0.35
5:A:586:HOH:O	5:A:653:HOH:O[4_545]	1.91	0.29
5:A:423:HOH:O	5:A:678:HOH:O[4_545]	2.17	0.03
5:A:714:HOH:O	5:A:736:HOH:O[4_545]	2.18	0.02

## 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	200/204 (98%)	198 (99%)	2 (1%)	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	A	169/175 (97%)	167 (99%)	2 (1%)	71	59

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	ARG
1	A	83	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	91	ASN
1	A	96	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

1 non-standard protein/DNA/RNA residue is 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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
1	OCS	A	131	1,4	7,8,9	1.71	2 (28%)	6,11,13	2.26	3 (50%)

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
1	OCS	A	131	1,4	-	1/4/7/9	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	131	OCS	CB-CA	-3.33	1.50	1.53
1	A	131	OCS	OD2-SG	-2.69	1.38	1.47

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	131	OCS	OD3-SG-CB	-4.04	102.14	106.94
1	A	131	OCS	OD1-SG-CB	3.06	110.58	106.94
1	A	131	OCS	OD2-SG-CB	2.17	109.20	105.74

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	131	OCS	N-CA-CB-SG

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 8 are monoatomic - leaving 2 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	BB4	A	301	4	15,16,16	1.76	3 (20%)	15,22,22	1.61	2 (13%)
3	ACT	A	302	4	1,3,3	2.39	1 (100%)	0,3,3	0.00	-

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	BB4	A	301	4	-	0/6/6/6	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	BB4	C13-N1	4.82	1.37	1.32
2	A	301	BB4	O14-N1	-2.87	1.32	1.40
3	A	302	ACT	CH3-C	2.39	1.51	1.48
2	A	301	BB4	BR-C8	2.01	1.94	1.90

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	BB4	O14-N1-C13	-5.04	112.35	119.79
2	A	301	BB4	C9-C10-C11	-2.31	117.93	120.84

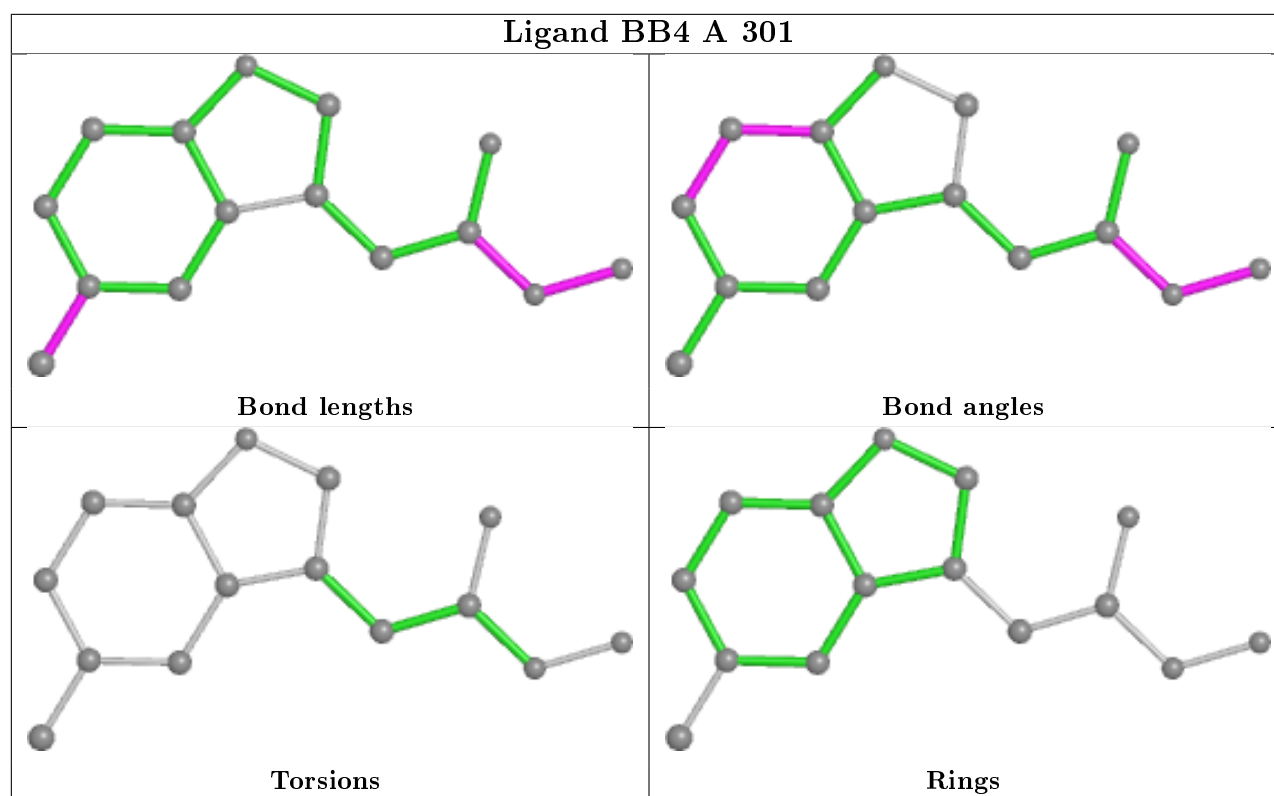
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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 than 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<sup>th</sup> 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	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	202/204 (99%)	-0.36	1 (0%) 91 92	6, 12, 23, 39	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	69	GLY	2.7

### 6.2 Non-standard residues in protein, DNA, RNA chains [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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	OCS	A	131	9/10	0.99	0.06	10,11,13,14	0

### 6.3 Carbohydrates [i](#)

There are no carbohydrates 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	ACT	A	302	4/4	0.97	0.08	10,10,10,11	0

*Continued on next page...*

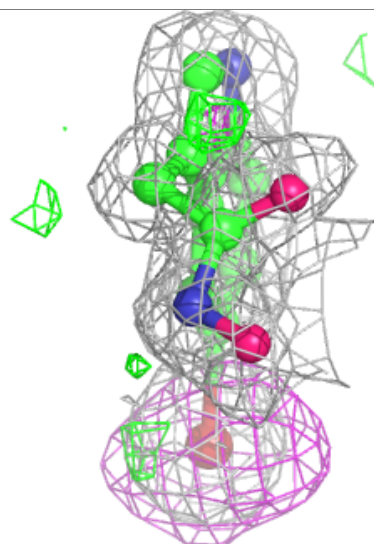
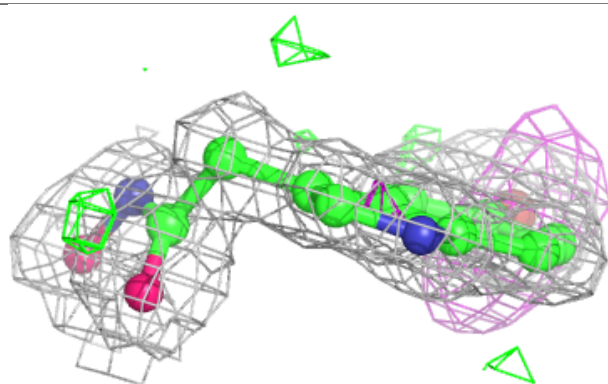
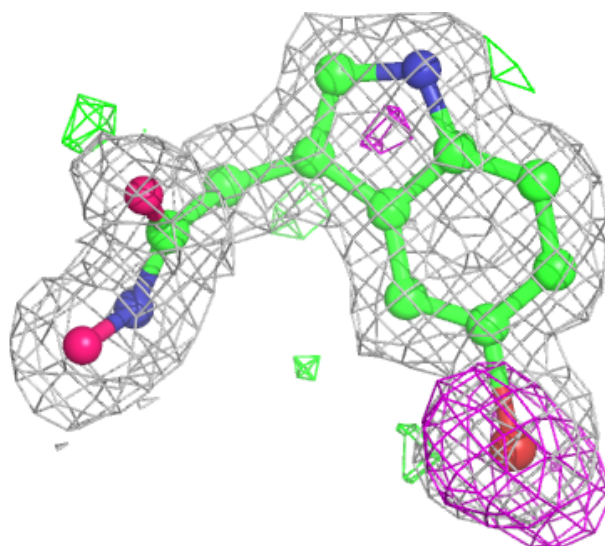
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	ZN	A	308	1/1	0.97	0.16	33,33,33,33	0
2	BB4	A	301	15/15	0.98	0.12	11,17,19,21	0
4	ZN	A	309	1/1	0.98	0.06	26,26,26,26	0
4	ZN	A	304	1/1	0.99	0.06	15,15,15,15	0
4	ZN	A	310	1/1	1.00	0.03	16,16,16,16	0
4	ZN	A	306	1/1	1.00	0.03	11,11,11,11	0
4	ZN	A	303	1/1	1.00	0.04	9,9,9,9	0
4	ZN	A	305	1/1	1.00	0.04	14,14,14,14	0
4	ZN	A	307	1/1	1.00	0.05	10,10,10,10	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 BB4 A 301:**

2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray  
mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative)  
and green (positive)





## 6.5 Other polymers [i](#)

There are no such residues in this entry.