

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

Nov 9, 2021 – 10:07 am GMT

PDB ID	:	7P8Z
Title	:	Short wilavidin biotin complex
Authors	:	Avraham, O.; Livnah, O.
Deposited on		
Resolution	:	1.67  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 following versions of software and data (see references (1)) were used in the production of this report:

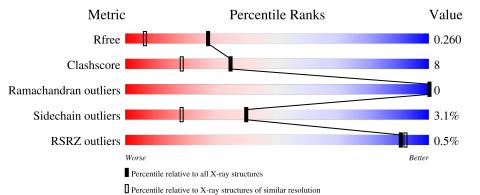
MolProbity	:	4.02b-467
Mogul	:	1.8.4 (270009), CSD as $541$ be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.23.2
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

# 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 1.67 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	6780 (1.70-1.66)
Clashscore	141614	7310 (1.70-1.66)
Ramachandran outliers	138981	7173 (1.70-1.66)
Sidechain outliers	138945	7172 (1.70-1.66)
RSRZ outliers	127900	6661 (1.70-1.66)

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	119	% 74% 1	3%	•	10%
1	В	119	% <b>7</b> 6%	12%	•	10%
1	С	119	78%	10%	•	10%
1	D	119	78%	10%	•	10%

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	D	202	-	-	Х	-



## 2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 3622 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	Δ	107	Total	С	Ν	0	S	0	1	0
	А	107	829	530	130	167	2	0	1	0
1	В	107	Total	С	Ν	0	S	0	0	0
	D	107	823	526	129	166	2	0	0	
1	С	107	Total	С	Ν	0	S	0	1	0
	U	107	829	529	130	168	2	0	1	0
1	Л	107	Total	С	Ν	Ο	S	0	3	0
	I D	107	833	533	129	169	2	0	0	U

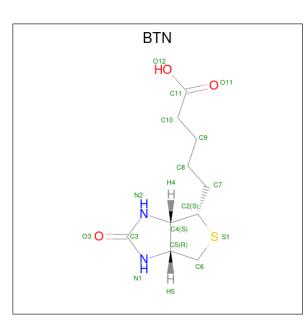
• Molecule 1 is a protein called Wilavidin.

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	0	MET	-	initiating methionine	UNP A0A3A4VWA2
В	0	MET	-	initiating methionine	UNP A0A3A4VWA2
С	0	MET	-	initiating methionine	UNP A0A3A4VWA2
D	0	MET	-	initiating methionine	UNP A0A3A4VWA2

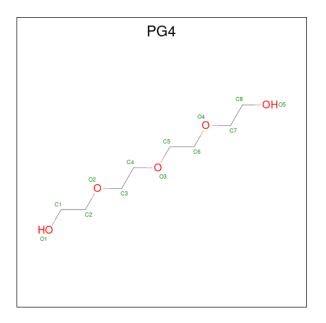
• Molecule 2 is BIOTIN (three-letter code: BTN) (formula:  $C_{10}H_{16}N_2O_3S$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		Atc	ms			ZeroOcc	AltConf
2	Δ	1	Total	С	Ν	0	$\mathbf{S}$	0	Ο
2	Л	1	16	10	2	3	1	0	0
2	В	1	Total	С	Ν	Ο	$\mathbf{S}$	0	0
2	D	1	16	10	2	3	1	0	0
2	С	1	Total	С	Ν	Ο	$\mathbf{S}$	0	Ο
	U	1	16	10	2	3	1	0	0
2	Л	1	Total	С	Ν	0	$\mathbf{S}$	0	Ο
	D	1	16	10	2	3	1	0	0

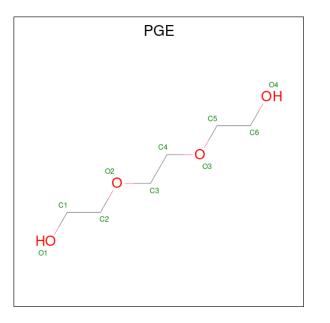
• Molecule 3 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula:  $C_8H_{18}O_5$ ).





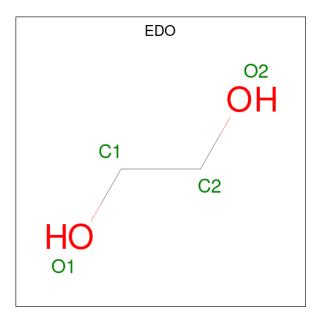
M	ol	Chain	Residues	Atoms			ZeroOcc	AltConf
3		А	1	Total 13	C 8	O 5	0	0

• Molecule 4 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula:  $C_6H_{14}O_4$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total         C         O           10         6         4	0	0

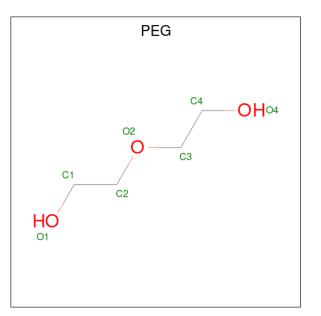
• Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
5	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

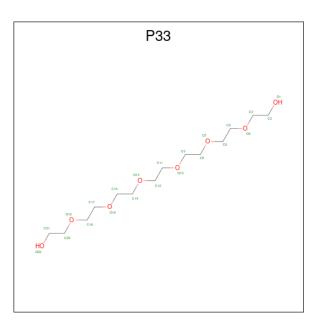
• Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula:  $C_4H_{10}O_3$ ).



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

• Molecule 7 is 3,6,9,12,15,18-HEXAOXAICOSANE-1,20-DIOL (three-letter code: P33) (formula:  $C_{14}H_{30}O_8$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	С	1	Total         C         O           22         14         8	0	0
7	D	1	Total         C         O           22         14         8	0	0

• Molecule 8 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	С	1	Total Na 1 1	0	0
8	D	1	Total Na 1 1	0	0

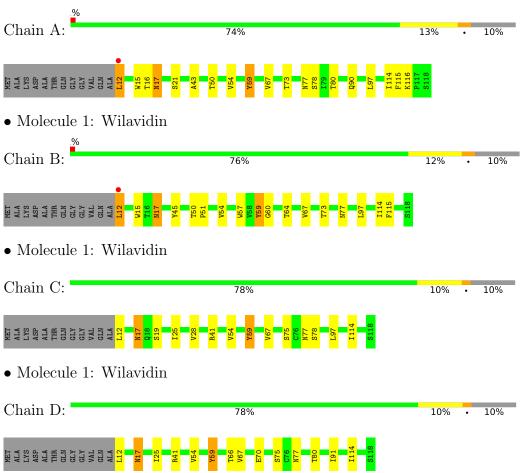
• Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	44	Total O 44 44	0	0
9	В	39	Total         O           39         39	0	0
9	С	17	Total         O           17         17	0	0
9	D	53	Total         O           53         53	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: Wilavidin



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	89.56Å 67.38Å 77.79Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	77.79 - 1.67	Depositor
Resolution (A)	77.79 - 1.67	EDS
% Data completeness	99.4 (77.79-1.67)	Depositor
(in resolution range)	99.4 (77.79-1.67)	EDS
R <sub>merge</sub>	0.11	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.09 (at 1.66 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
D D.	0.189 , $0.251$	Depositor
$R, R_{free}$	0.203 , $0.260$	DCC
$R_{free}$ test set	2766 reflections $(4.99%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	13.7	Xtriage
Anisotropy	0.732	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning <sup>2</sup>	$ L  > = 0.57, < L^2 > = 0.41$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3622	wwPDB-VP
Average B, all atoms $(Å^2)$	18.0	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 59.88 % 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 1.6521e-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: PG4, NA, BTN, PGE, P33, EDO, PEG

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	А	0.87	0/856	1.02	0/1174
1	В	0.86	0/847	0.99	0/1162
1	С	0.84	0/853	1.04	1/1170~(0.1%)
1	D	0.82	0/866	1.03	2/1188~(0.2%)
All	All	0.85	0/3422	1.02	3/4694~(0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}(^{o})$
1	D	41	ARG	NE-CZ-NH2	-7.80	116.40	120.30
1	С	41	ARG	NE-CZ-NH2	-6.63	116.99	120.30
1	D	41	ARG	NE-CZ-NH1	5.58	123.09	120.30

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	829	0	775	15	0
1	В	823	0	767	18	0
1	С	829	0	771	12	0
1	D	833	0	784	16	0

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Mol	Chain	<i>i previous</i> Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	А	16	0	15	0	0
2	В	16	0	15	0	0
2	С	16	0	15	0	0
2	D	16	0	15	0	0
3	А	13	0	18	1	0
4	А	10	0	14	2	0
5	В	8	0	12	0	0
6	В	7	0	10	1	0
6	D	7	0	10	4	0
7	С	22	0	29	2	0
7	D	22	0	30	1	0
8	С	1	0	0	0	0
8	D	1	0	0	0	0
9	А	44	0	0	4	0
9	В	39	0	0	0	0
9	С	17	0	0	0	0
9	D	53	0	0	0	0
All	All	3622	0	3280	56	0

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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 8.

All (56) 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 ( )
1:B:64:THR:OG1	1:D:66[A]:THR:HG21	1.76	0.84
1:D:66[A]:THR:HG23	1:D:80:THR:O	1.90	0.72
1:A:90:GLN:OE1	9:A:301:HOH:O	2.08	0.71
1:A:50:THR:HG21	1:A:73:THR:HG21	1.74	0.69
1:C:28:VAL:HG21	7:C:202:P33:H91	1.75	0.66
1:B:17:ASN:HD22	1:B:17:ASN:C	2.00	0.65
1:C:17:ASN:HD22	1:C:17:ASN:C	2.00	0.65
1:A:17:ASN:C	1:A:17:ASN:HD22	2.04	0.61
1:A:77:ASN:HA	1:C:59:TYR:CZ	2.37	0.60
1:D:17:ASN:C	1:D:17:ASN:HD22	2.06	0.58
1:B:50:THR:HG21	1:B:73:THR:HG21	1.85	0.58
1:D:54:VAL:HG22	1:D:67:VAL:HG22	1.86	0.57
4:A:203:PGE:H5	9:A:311:HOH:O	2.04	0.57
1:B:57:TRP:HD1	1:D:66[A]:THR:HG22	1.71	0.56
1:B:77:ASN:HA	1:D:59:TYR:CZ	2.40	0.56
1:B:97:LEU:C	1:B:97:LEU:HD23	2.26	0.55

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		Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:D:12:LEU:HB2	1:D:25:ILE:O	2.08	0.54
1:A:15:TRP:HB3	1:A:115:PHE:HB3	1.90	0.54
1:B:54:VAL:HG22	1:B:67:VAL:HG22	1.90	0.54
1:C:17:ASN:HA	1:C:114:ILE:O	2.08	0.53
1:B:64:THR:HG1	1:D:66[A]:THR:HG21	1.73	0.51
1:B:15:TRP:HB3	1:B:115:PHE:HB3	1.92	0.50
1:A:59:TYR:OH	1:C:75:SER:HB3	2.12	0.49
1:B:59:TYR:OH	1:D:75[A]:SER:OG	2.28	0.49
1:C:54:VAL:HG22	1:C:67:VAL:HG22	1.94	0.49
1:C:28:VAL:CG2	7:C:202:P33:H91	2.43	0.48
6:D:202:PEG:O4	6:D:202:PEG:H11	2.13	0.48
4:A:203:PGE:C5	9:A:311:HOH:O	2.59	0.48
1:D:17:ASN:HA	1:D:114:ILE:O	2.13	0.47
1:C:12:LEU:HB2	1:C:25:ILE:O	2.14	0.47
1:B:12:LEU:N	1:B:12:LEU:HD13	2.30	0.47
1:B:59:TYR:CZ	1:D:77:ASN:HA	2.50	0.47
1:A:54:VAL:HG22	1:A:67:VAL:HG22	1.96	0.46
1:A:80:THR:OG1	1:A:97:LEU:HD13	2.14	0.46
1:B:60:GLY:HA2	6:D:202:PEG:H12	1.96	0.46
1:B:59:TYR:OH	1:D:75[B]:SER:HB3	2.16	0.46
1:D:12:LEU:N	1:D:12:LEU:HD23	2.31	0.46
1:B:45:TYR:CE1	6:B:204:PEG:H31	2.50	0.45
6:D:202:PEG:C1	6:D:202:PEG:C4	2.90	0.45
1:A:12:LEU:O	1:A:12:LEU:HD22	2.16	0.45
1:D:70:GLU:HG3	1:D:75[B]:SER:OG	2.17	0.45
1:A:12:LEU:HD22	1:A:12:LEU:C	2.37	0.44
6:D:202:PEG:H11	6:D:202:PEG:C4	2.47	0.44
1:D:91:ILE:HD11	7:D:203:P33:H52	1.99	0.44
1:A:17:ASN:HA	1:A:114:ILE:O	2.18	0.44
1:A:59:TYR:CZ	1:C:77:ASN:HA	2.53	0.44
1:A:16:THR:HA	1:A:21:SER:O	2.18	0.43
1:A:43:ALA:HB2	9:A:341:HOH:O	2.18	0.43
1:B:64:THR:CB	1:D:66[A]:THR:HG21	2.48	0.43
1:B:17:ASN:HA	1:B:114:ILE:O	2.19	0.43
1:C:17:ASN:ND2	1:C:19:SER:H	2.18	0.42
1:A:78:SER:HB2	1:A:97:LEU:HD11	2.01	0.41
3:A:202:PG4:H52	3:A:202:PG4:H32	1.87	0.41
1:C:17:ASN:C	1:C:17:ASN:ND2	2.71	0.41
1:C:78:SER:HB2	1:C:97:LEU:HD11	2.03	0.40
1:B:50:THR:HA	1:B:51:PRO:HD3	1.87	0.40

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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	А	106/119~(89%)	105~(99%)	1 (1%)	0	100 100
1	В	105/119~(88%)	104 (99%)	1 (1%)	0	100 100
1	С	106/119~(89%)	105 (99%)	1 (1%)	0	100 100
1	D	108/119~(91%)	107 (99%)	1 (1%)	0	100 100
All	All	425/476~(89%)	421 (99%)	4 (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	А	90/96~(94%)	86~(96%)	4 (4%)	28 9
1	В	89/96~(93%)	86~(97%)	3~(3%)	37 15
1	С	90/96~(94%)	88~(98%)	2(2%)	52 32
1	D	92/96~(96%)	90~(98%)	2(2%)	52 32
All	All	361/384~(94%)	350~(97%)	11 (3%)	40 20

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	12	LEU
1	А	17	ASN

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Mol	Chain	Res	Type				
1	А	59	TYR				
1	А	116	LYS				
1	В	12	LEU				
1	В	17	ASN				
1	В	59	TYR				
1	С	17	ASN				
1	С	59	TYR				
1	D	17	ASN				
1	D	59	TYR				

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

Mol	Chain	Res	Type
1	А	17	ASN
1	В	17	ASN
1	С	17	ASN
1	С	88	GLN
1	D	17	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 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

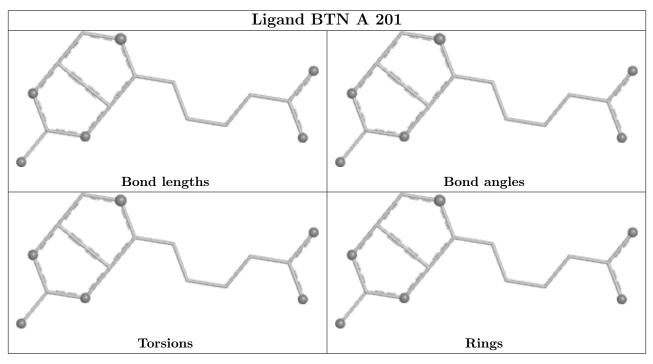


There are no torsion outliers.

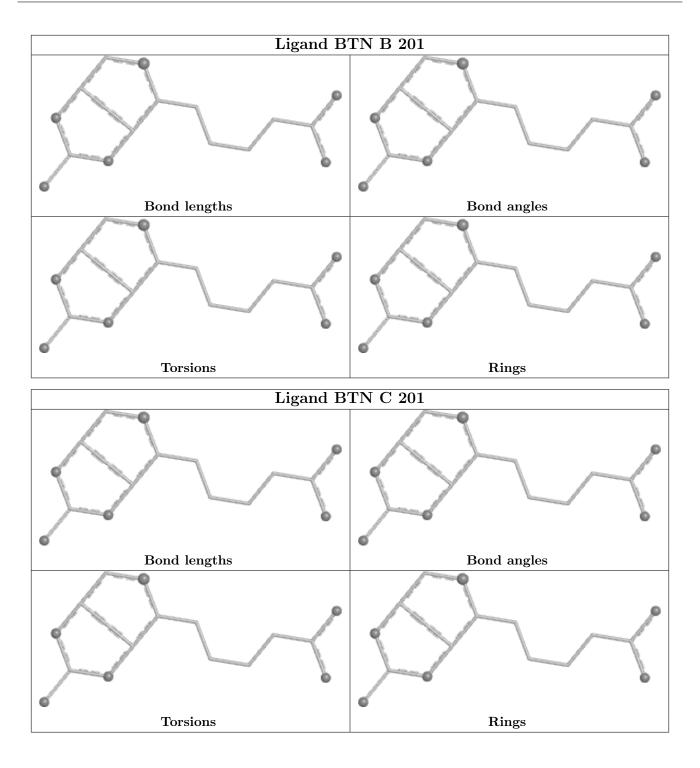
There are no ring outliers.

No monomer is involved in short contacts.

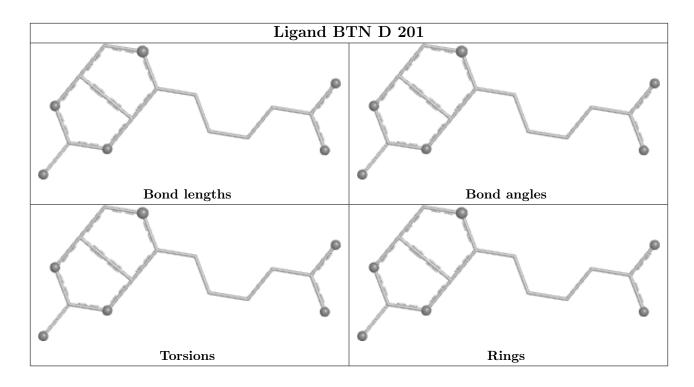
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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	$\mathbf{OWAB}(\mathrm{\AA}^2)$	$Q{<}0.9$
1	А	107/119~(89%)	-0.05	1 (0%) 84 87	10, 17, 34, 64	0
1	В	107/119~(89%)	-0.13	1 (0%) 84 87	8, 16, 31, 56	0
1	С	107/119~(89%)	-0.19	0 100 100	10, 15, 25, 40	0
1	D	107/119~(89%)	-0.22	0 100 100	9, 14, 23, 37	0
All	All	428/476 (89%)	-0.15	2 (0%) 91 92	8, 16, 29, 64	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	12	LEU	4.5
1	В	12	LEU	4.0

### 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)

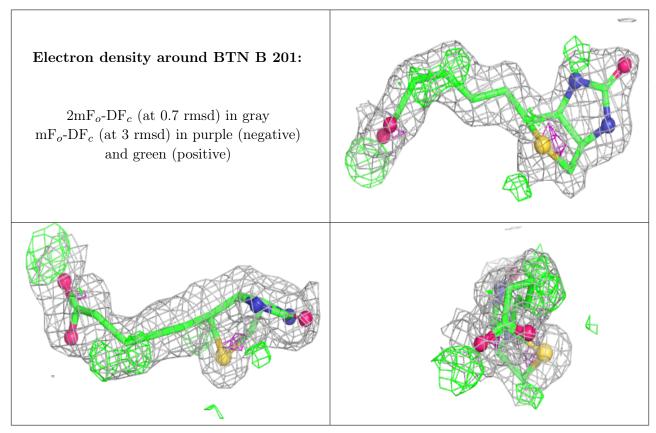
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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



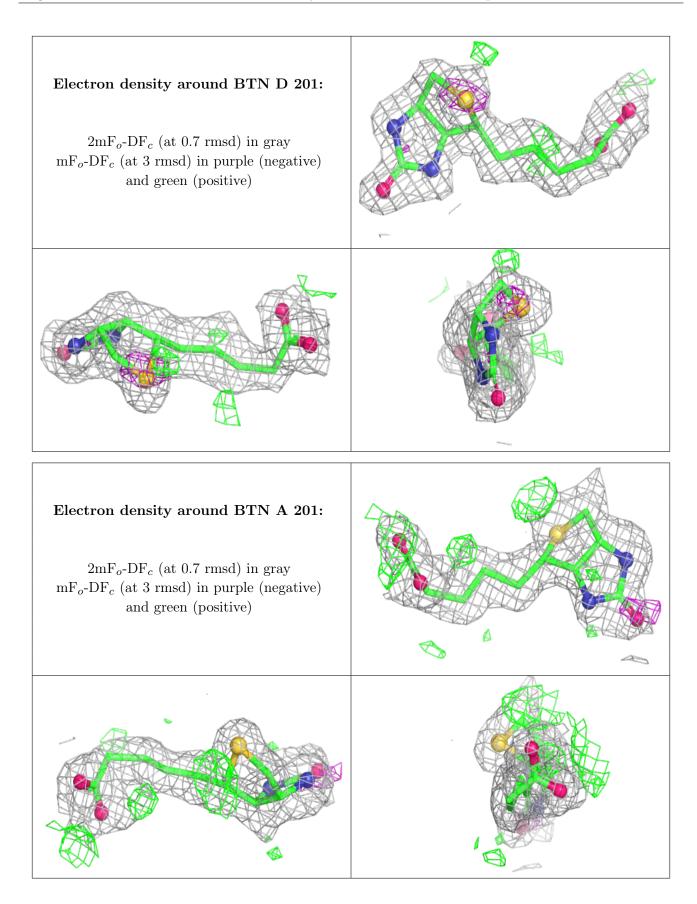
7P8Z	
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q < 0.9
5	EDO	В	203	4/4	0.77	0.17	$35,\!38,\!39,\!39$	0
6	PEG	D	202	7/7	0.77	0.24	34,38,51,54	0
2	BTN	В	201	16/16	0.83	0.15	12,19,31,31	0
3	PG4	А	202	13/13	0.83	0.20	$37,\!49,\!55,\!56$	0
4	PGE	А	203	10/10	0.84	0.20	30,40,46,47	0
5	EDO	В	202	4/4	0.87	0.13	43,52,54,57	0
8	NA	С	203	1/1	0.87	0.39	41,41,41,41	0
2	BTN	D	201	16/16	0.88	0.14	15,18,28,28	0
7	P33	С	202	22/22	0.89	0.12	18,29,35,36	0
2	BTN	А	201	16/16	0.89	0.12	15,20,30,33	0
2	BTN	С	201	16/16	0.90	0.11	$16,\!19,\!27,\!28$	0
7	P33	D	203	22/22	0.91	0.10	14,29,37,45	0
6	PEG	В	204	7/7	0.91	0.10	32,35,42,48	0
8	NA	D	204	1/1	0.96	0.08	36,36,36,36	0

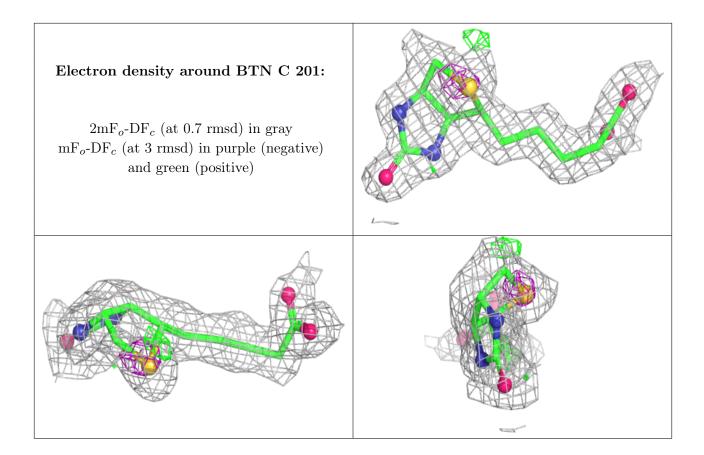
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











## 6.5 Other polymers (i)

There are no such residues in this entry.

