

wwPDB X-ray Structure Validation Summary Report (i)

May 25, 2020 - 07:05 am BST

PDB ID	:	5MLD
Title	:	Crystal Structure of RosB with bound intermediate AFP (8-demethyl-8-amin
		oriboflavin-5'-phosphate)
Authors	:	Konjik, V.; Bruenle, S.; Demmer, U.; Vanselow, A.; Sandhoff, R.; Mack, M.;
		Ermler, U.
Deposited on		
Resolution	:	1.70 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 following versions of software and data (see references (1)) were used in the production of this report:

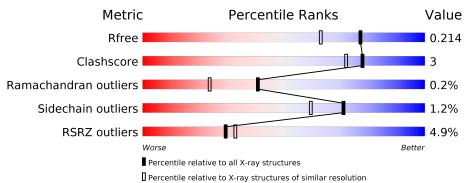
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins)	· · · · · · · · · · · · · · · · · · ·	20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001)
	:	

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 1.70 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
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 >=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	Δ	257	6%	_
	A	257	87%	11% •
			5%	
1	В	257	89%	7% ••
			5%	
1	C	257	93%	5% •
			3%	
1	D	257	92%	5% •
			6%	
1	Е	257	88%	10% •
			5%	
1	F	257	89%	7% ••



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Mol	Chain	Length	Quality of chain		
1	G	257	91%	7%	·
1	Н	257	4% 92%	6%	·



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 18138 atoms, of which 0 are hydrogens and 0 are deuteriums.

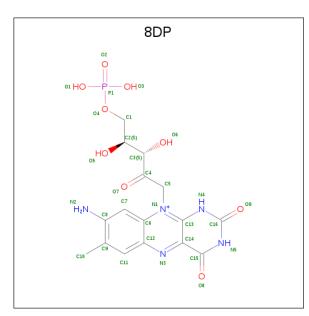
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace		
1	1 A	252	Total	С	Ν	0	S	0	8	0		
		202	2054	1292	358	395	9	0	0	0		
1	В	252	Total	С	Ν	Ο	S	0	6	0		
	D	202	2041	1285	355	392	9	0	0	0		
1	С	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	1	0		
	U	2.52	2000	1259	350	383	8	0	T	0		
1	П	D	О	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	0	0
1	D	202	1995	1256	350	381	8	0	0	0		
1	Е	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	2	0		
1	Ľ	202	2008	1263	352	385	8	0	2	0		
1	F	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	1	0		
	Ľ	202	2003	1260	351	384	8	0	Ŧ	0		
1	G	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	1	0		
	G	202	2000	1259	350	383	8	0	1	0		
1	Н	252	Total	\mathbf{C}	Ν	Ο	\mathbf{S}	0	2	0		
	11	202	2005	1262	351	384	8		2			

• Molecule 1 is a protein called BRAMP domain protein.

• Molecule 2 is 8-demethyl-8-aminoriboflavin-5'-phosphate (three-letter code: 8DP) (formula: $C_{16}H_{19}N_5O_9P$).





Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	
2	А	1	Total	С	Ν	Ο	Р	0	0	
	A	L	31	16	5	9	1	0	0	
2	В	1	Total	С	Ν	Ο	Р	0	0	
	D	I	31	16	5	9	1	0	0	
2	С	1	Total	С	Ν	Ο	Р	0	0	
		I	31	16	5	9	1	0	0	
2	а	D	1	Total	С	Ν	Ο	Р	0	0
	D	1	31	16	5	9	1	U	0	
2	F	E 1	Total	С	Ν	Ο	Р	0	0	
	Ľ		31	16	5	9	1	0	0	
2	F	1	Total	С	Ν	Ο	Р	0	0	
	Ľ	I	31	16	5	9	1	0	0	
2	C	G	1	Total	С	Ν	Ο	Р	0	0
	9		31	16	5	9	1	0	0	
2	2 H	1	Total	С	Ν	Ο	Р	0	0	
	11		31	16	5	9	1	0		

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	246	Total O 246 246	0	0
3	В	205	Total O 205 205	0	0
3	С	191	Total O 191 191	0	0
3	D	246	Total O 246 246	0	0



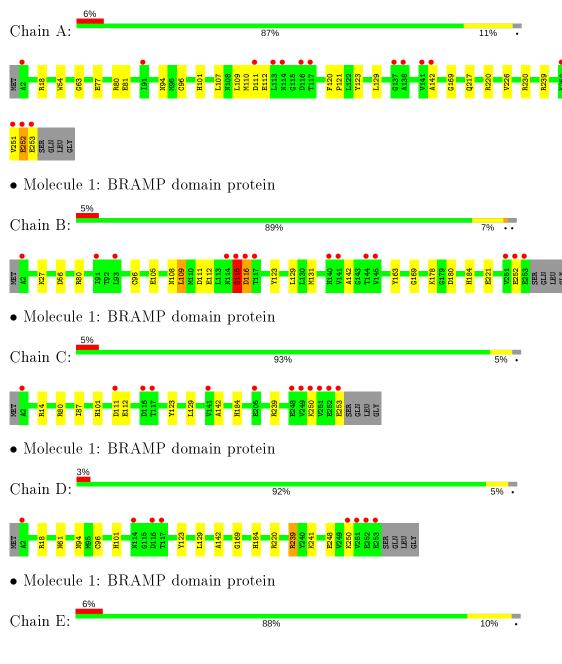
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	Е	217	Total O 217 217	0	0
3	F	221	Total O 221 221	0	0
3	G	247	Total O 247 247	0	0
3	Н	211	Total O 211 211	0	0



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.



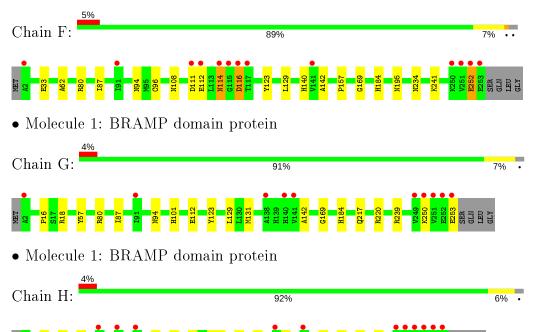
• Molecule 1: BRAMP domain protein







• Molecule 1: BRAMP domain protein





V249 K250 V251 E253 E253 SER GLN LEU CLY

4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	131.49Å 71.13 Å 214.80 Å	Depositor
a, b, c, α , β , γ	90.00° 92.08° 90.00°	Depositor
Resolution (Å)	47.54 - 1.70	Depositor
Resolution (A)	47.54 - 1.70	EDS
% Data completeness	92.9 (47.54-1.70)	Depositor
(in resolution range)	92.9(47.54-1.70)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	0.11	Depositor
$< I/\sigma(I) > 1$	$1.63 (at 1.70 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
D D .	0.174 , 0.213	Depositor
R, R_{free}	0.175 , 0.214	DCC
R_{free} test set	10149 reflections (5.01%)	wwPDB-VP
Wilson B-factor $(Å^2)$	23.6	Xtriage
Anisotropy	0.092	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 49.1	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.013 for -h,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	18138	wwPDB-VP
Average B, all atoms $(Å^2)$	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.60% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: 8DP

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	Bo	nd lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.39	0/2101	0.59	0/2853	
1	В	0.36	0/2085	0.60	1/2831~(0.0%)	
1	С	0.36	0/2044	0.56	0/2776	
1	D	0.36	0/2036	0.56	0/2765	
1	Е	0.40	1/2052~(0.0%)	0.56	0/2787	
1	F	0.42	2/2044~(0.1%)	0.57	0/2776	
1	G	0.36	0/2044	0.56	0/2776	
1	Н	0.35	0/2052	0.55	0/2787	
All	All	0.38	3/16458~(0.0%)	0.57	1/22351~(0.0%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	F	252	GLU	CD-OE1	-6.12	1.19	1.25
1	Е	241	LYS	CD-CE	-6.04	1.36	1.51
1	F	252	GLU	CD-OE2	-5.45	1.19	1.25

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	115	GLY	C-N-CA	5.16	134.60	121.70

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



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2054	0	2019	20	0
1	В	2041	0	2007	18	0
1	С	2000	0	1967	11	0
1	D	1995	0	1963	13	0
1	Е	2008	0	1972	17	0
1	F	2003	0	1966	16	0
1	G	2000	0	1967	15	0
1	Н	2005	0	1973	11	0
2	А	31	0	0	0	0
2	В	31	0	0	0	0
2	С	31	0	0	0	0
2	D	31	0	0	0	0
2	Е	31	0	0	0	0
2	F	31	0	0	0	0
2	G	31	0	0	0	0
2	Н	31	0	0	0	0
3	А	246	0	0	1	0
3	В	205	0	0	2	0
3	С	191	0	0	1	0
3	D	246	0	0	2	0
3	Е	217	0	0	3	0
3	F	221	0	0	3	0
3	G	247	0	0	0	0
3	Н	211	0	0	1	0
All	All	18138	0	15834	92	0

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.

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.

The worst 5 of 92 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	${f Interatomic} \ {f distance} \ ({ m \AA})$	Clash overlap (Å)
1:B:115:GLY:HA3	1:B:116:ASP:HB2	1.33	1.06
1:E:250:LYS:NZ	3:E:401:HOH:O	2.19	0.74
1:E:213:GLU:OE2	1:E:217:GLN:NE2	2.22	0.72
1:F:80:ARG:NH2	1:F:112:GLU:OE2	2.24	0.71
1:B:111[A]:ASP:OD2	1:D:241:LYS:NZ	2.26	0.69

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	258/257~(100%)	245~(95%)	12 (5%)	1 (0%)	34 18
1	В	256/257~(100%)	246~(96%)	8 (3%)	2 (1%)	19 6
1	С	251/257~(98%)	247 (98%)	4 (2%)	0	100 100
1	D	250/257~(97%)	247~(99%)	3 (1%)	0	100 100
1	Ε	252/257~(98%)	247 (98%)	5 (2%)	0	100 100
1	F	251/257~(98%)	244 (97%)	5(2%)	2(1%)	19 6
1	G	251/257~(98%)	246~(98%)	5 (2%)	0	100 100
1	Н	252/257~(98%)	246~(98%)	6 (2%)	0	100 100
All	All	2021/2056~(98%)	1968 (97%)	48 (2%)	5~(0%)	41 30

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	252	GLU
1	В	116	ASP
1	В	115	GLY
1	F	116	ASP
1	F	114	ASN

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	219/215~(102%)	217~(99%)	2(1%)	78 70	



Mol	Chain	Analysed	Rotameric	Outliers	Percer	ntiles
1	В	217/215~(101%)	213~(98%)	4 (2%)	59	43
1	С	212/215~(99%)	209~(99%)	3~(1%)	67	53
1	D	211/215~(98%)	208~(99%)	3~(1%)	67	53
1	Ε	213/215~(99%)	211~(99%)	2(1%)	78	70
1	F	212/215~(99%)	210~(99%)	2(1%)	78	70
1	G	212/215~(99%)	209~(99%)	3~(1%)	67	53
1	Η	213/215~(99%)	210~(99%)	3~(1%)	67	53
All	All	1709/1720~(99%)	1687~(99%)	22~(1%)	71	56

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5 of 22 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	94	ASN
1	Е	94	ASN
1	Н	94	ASN
1	D	123	TYR
1	D	239	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	А	94	ASN
1	В	94	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 carbohydrates in this entry.



5.6 Ligand geometry (i)

8 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
MOI	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
2	8DP	С	301	-	29,33,33	1.78	6 (20%)	$32,\!50,\!50$	1.49	<mark>5 (15%)</mark>
2	8DP	D	301	-	29,33,33	1.79	4 (13%)	$32,\!50,\!50$	1.90	<mark>6 (18%)</mark>
2	8DP	Е	301	-	29,33,33	1.85	6 (20%)	$32,\!50,\!50$	1.90	7 (21%)
2	8DP	F	301	-	29,33,33	1.86	6 (20%)	$32,\!50,\!50$	1.95	<mark>5 (15%)</mark>
2	8DP	G	301	-	29,33,33	1.69	6 (20%)	$32,\!50,\!50$	1.90	<mark>6 (18%)</mark>
2	8DP	Н	301	-	29,33,33	1.67	5 (17%)	$32,\!50,\!50$	1.59	4 (12%)
2	8DP	А	301	-	29,33,33	1.80	7 (24%)	$32,\!50,\!50$	1.77	7 (21%)
2	8DP	В	301	-	29,33,33	1.80	4 (13%)	$32,\!50,\!50$	2.09	<mark>5 (15%)</mark>

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	8DP	С	301	-	-	4/18/18/18	0/3/3/3
2	8DP	D	301	-	-	4/18/18/18	0/3/3/3
2	8DP	Е	301	-	-	4/18/18/18	0/3/3/3
2	8DP	F	301	-	-	5/18/18/18	0/3/3/3
2	8DP	G	301	-	-	4/18/18/18	0/3/3/3
2	8DP	Н	301	-	-	4/18/18/18	0/3/3/3
2	8DP	А	301	-	_	4/18/18/18	0/3/3/3
2	8DP	В	301	_	_	7/18/18/18	0/3/3/3

The worst 5 of 44 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
2	F	301	8DP	O8-C15	7.03	1.42	1.24



Mol	Chain	\mathbf{Res}	Type	Atoms	Z	Observed(A)	Ideal(Å)
2	Ε	301	8DP	O8-C15	6.92	1.42	1.24
2	D	301	8DP	O8-C15	6.88	1.41	1.24
2	В	301	8DP	O8-C15	6.70	1.41	1.24
2	С	301	8DP	O8-C15	6.32	1.40	1.24

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The worst 5 of 45 bond angle outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	be Atoms		$Observed(^{o})$	$Ideal(^{o})$
2	В	301	8DP	C15-N5-C16	7.94	121.85	115.14
2	F	301	8DP	C15-N5-C16	7.26	121.27	115.14
2	Е	301	8DP	C15-N5-C16	6.80	120.89	115.14
2	D	301	8DP	C15-N5-C16	6.78	120.86	115.14
2	А	301	8DP	C15-N5-C16	6.68	120.78	115.14

There are no chirality outliers.

5 of 36 torsion outliers are listed below:

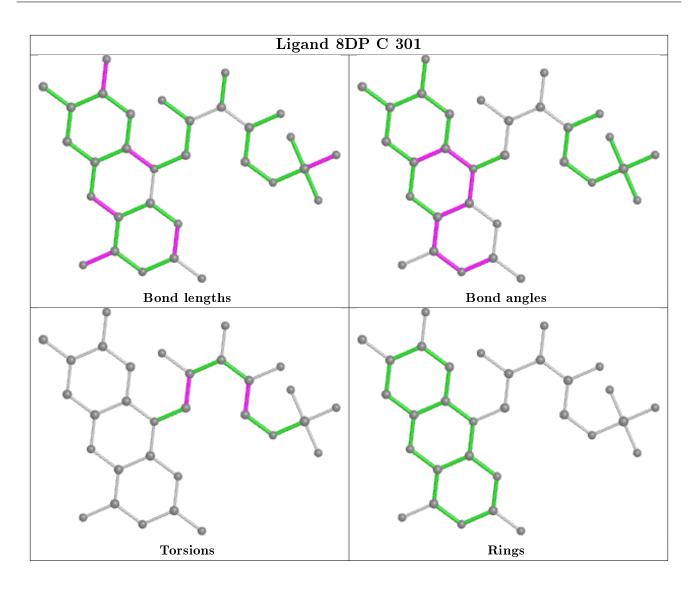
Mol	Chain	Res	Type	Atoms
2	С	301	8DP	O7-C4-C5-N1
2	С	301	8DP	O4-C1-C2-C3
2	С	301	8DP	O4-C1-C2-O5
2	D	301	8DP	O7-C4-C5-N1
2	D	301	8DP	O4-C1-C2-C3

There are no ring outliers.

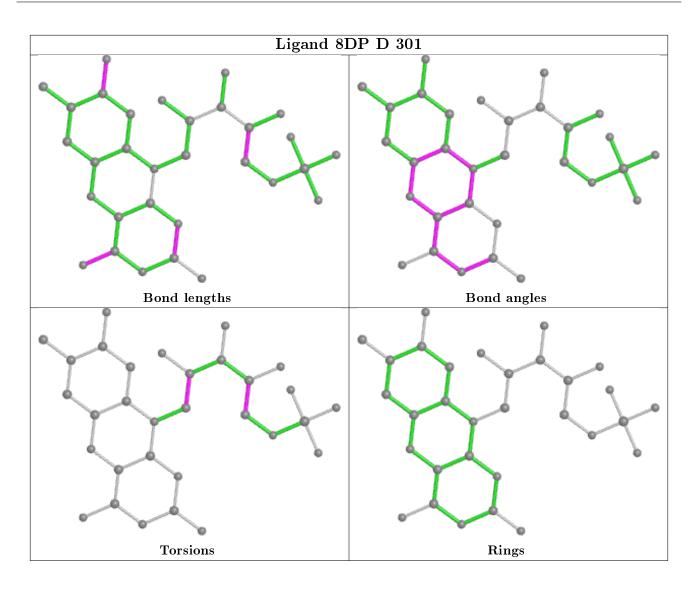
No monomer is involved in short contacts.

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.

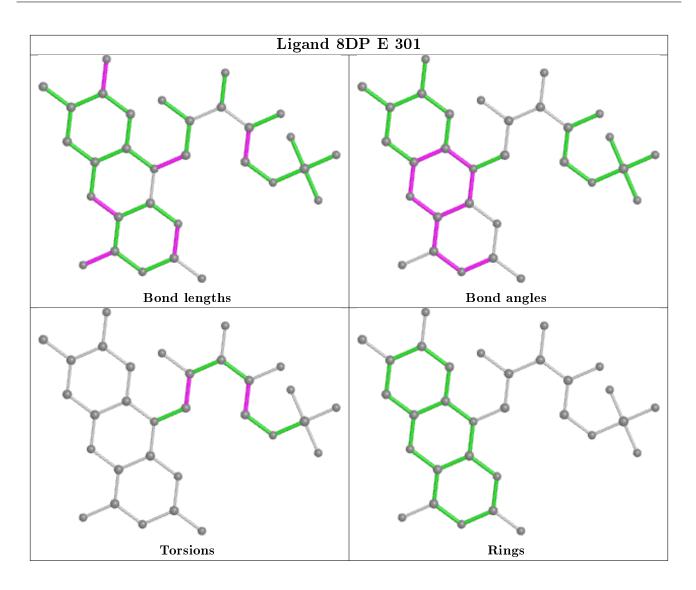




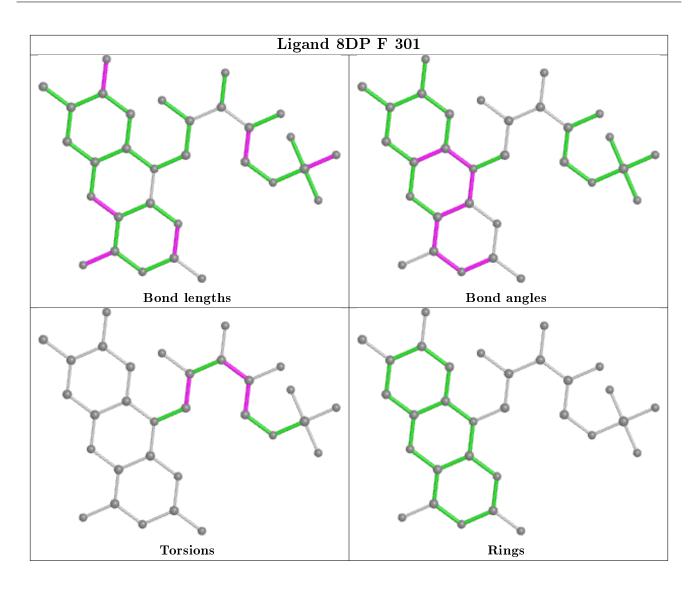




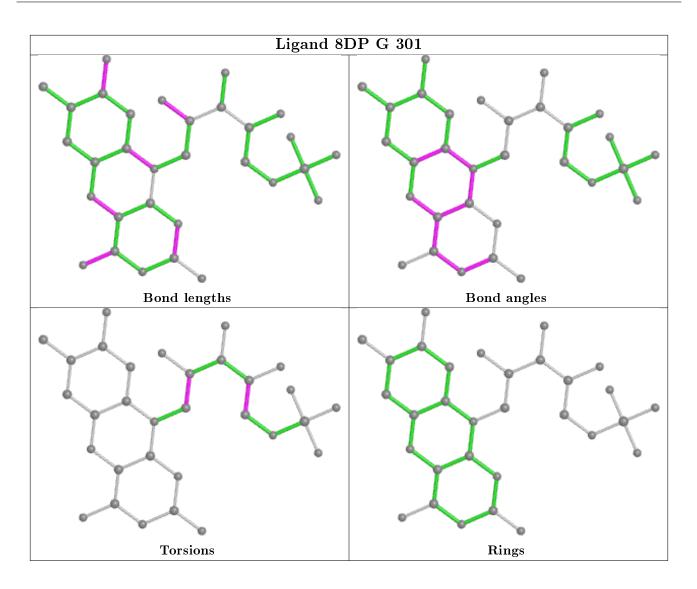




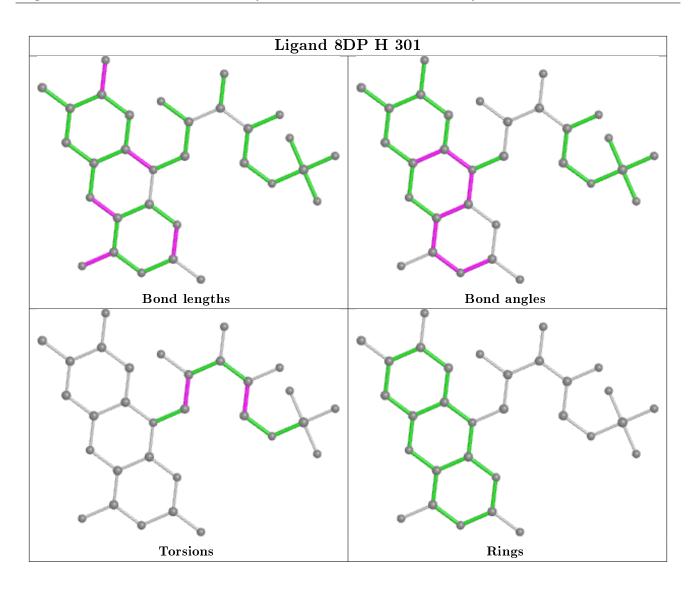




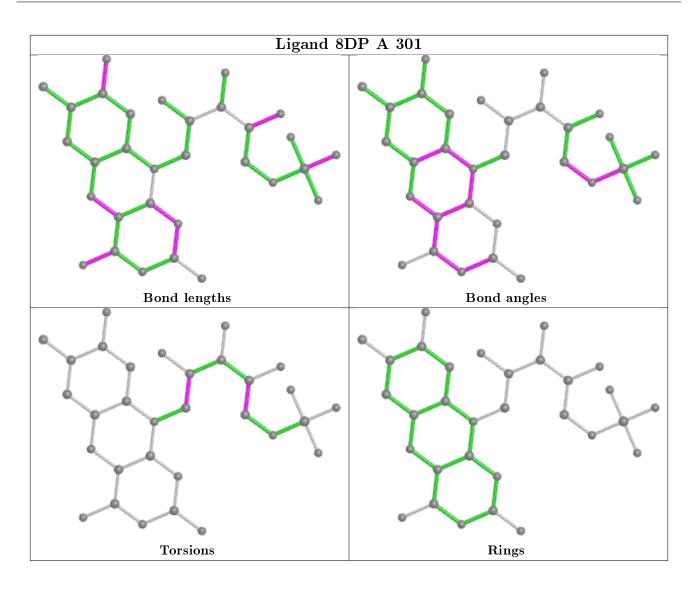




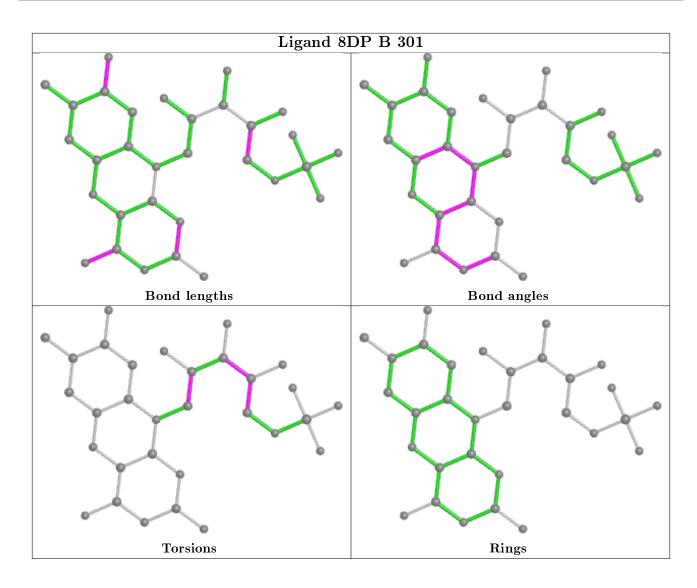












5.7 Other polymers (i)

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	<RSRZ $>$	$\# RSRZ {>}2$	$OWAB(A^2)$	Q<0.9
1	А	252/257~(98%)	0.25	15 (5%) 21 24	15, 22, 42, 95	0
1	В	252/257~(98%)	0.17	14 (5%) 24 27	18, 25, 40, 88	0
1	С	252/257~(98%)	0.18	12 (4%) 30 34	17, 28, 45, 93	0
1	D	252/257~(98%)	0.05	8 (3%) 47 52	17, 25, 39, 94	0
1	Е	252/257~(98%)	0.14	15 (5%) 21 24	19, 26, 40, 82	0
1	F	252/257~(98%)	0.08	13 (5%) 27 30	18, 26, 43, 79	0
1	G	252/257~(98%)	0.21	10 (3%) 38 42	16, 22, 40, 99	0
1	Н	252/257~(98%)	0.16	11 (4%) 34 38	16, 29, 43, 102	0
All	All	2016/2056~(98%)	0.16	98 (4%) 29 33	15, 25, 42, 102	0

The worst 5 of 98 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	Е	253	GLU	9.1
1	В	253	GLU	8.8
1	G	253	GLU	8.2
1	F	253	GLU	7.6
1	А	252	GLU	7.5

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 carbohydrates in this entry.



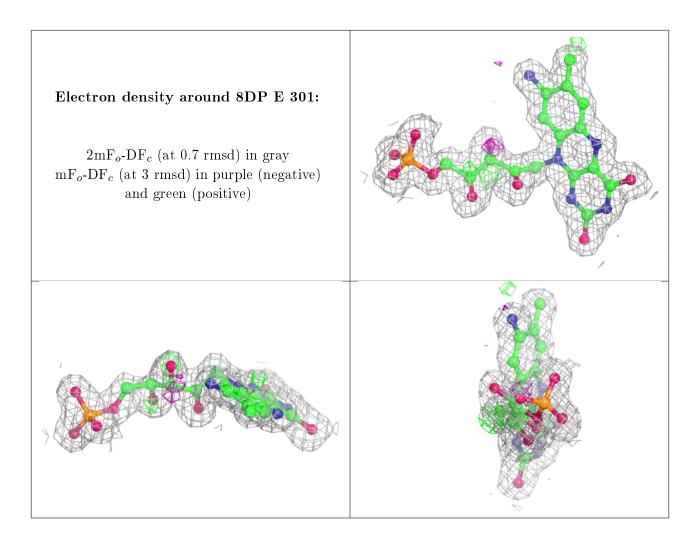
6.4 Ligands (i)

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^{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.

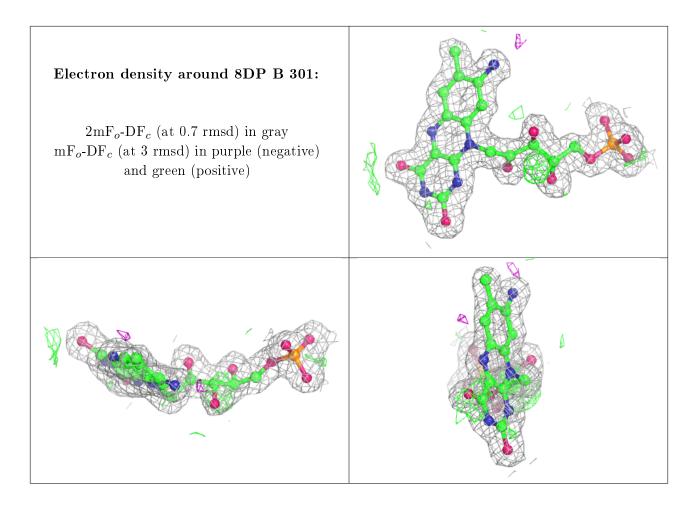
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
2	8DP	Е	301	31/31	0.96	0.11	$19,\!24,\!32,\!33$	0
2	8DP	В	301	31/31	0.96	0.12	$20,\!23,\!30,\!33$	0
2	8DP	С	301	31/31	0.97	0.09	$16,\!19,\!25,\!32$	0
2	8DP	F	301	31/31	0.97	0.09	18,22,29,33	0
2	8DP	G	301	31/31	0.97	0.10	$14,\!18,\!24,\!31$	0
2	8DP	Н	301	31/31	0.97	0.09	$16,\!21,\!28,\!34$	0
2	8DP	А	301	31/31	0.97	0.10	$14,\!17,\!29,\!32$	0
2	8DP	D	301	31/31	0.97	0.08	$16,\!21,\!27,\!33$	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.

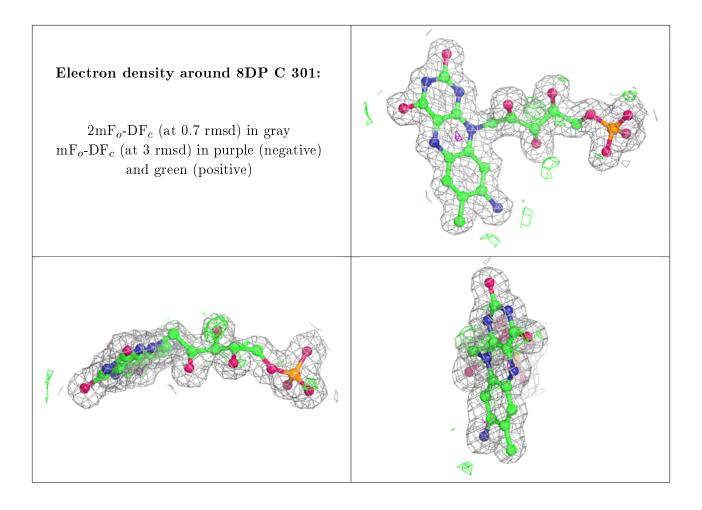




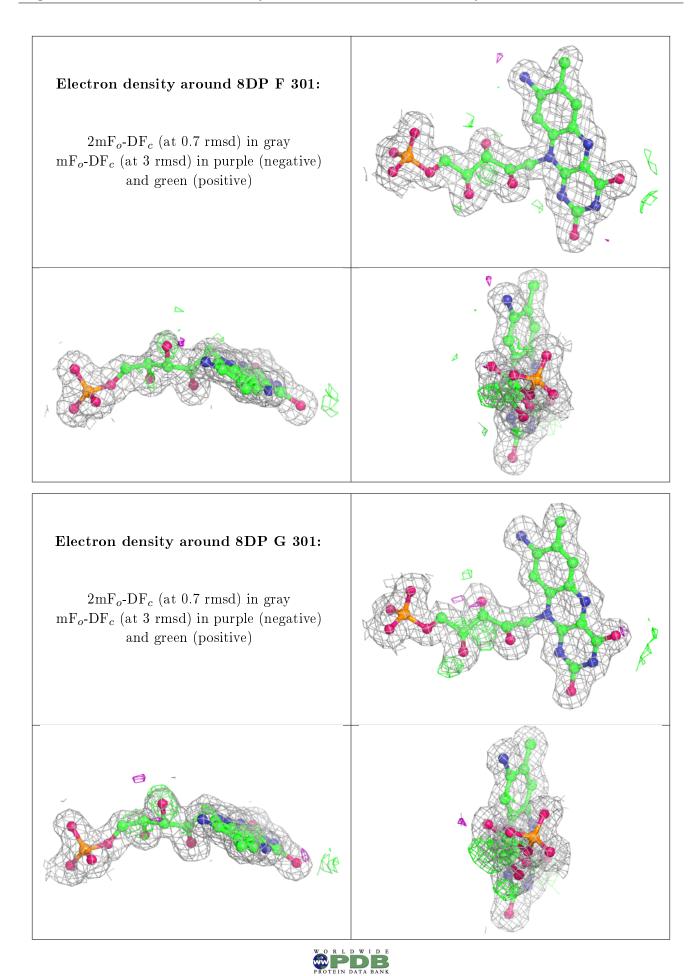


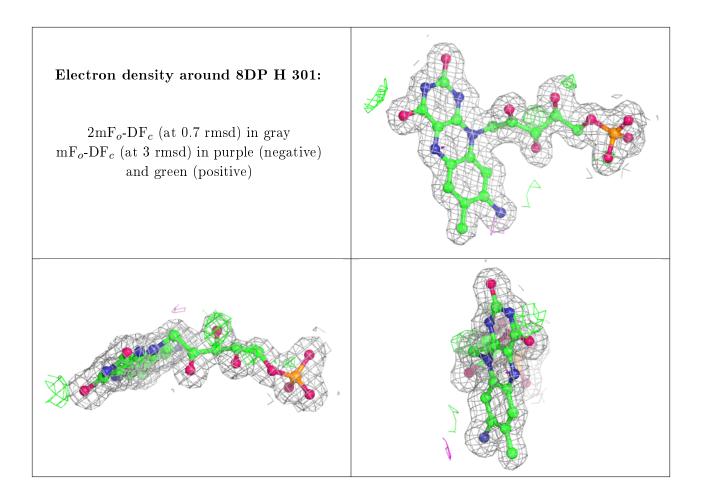




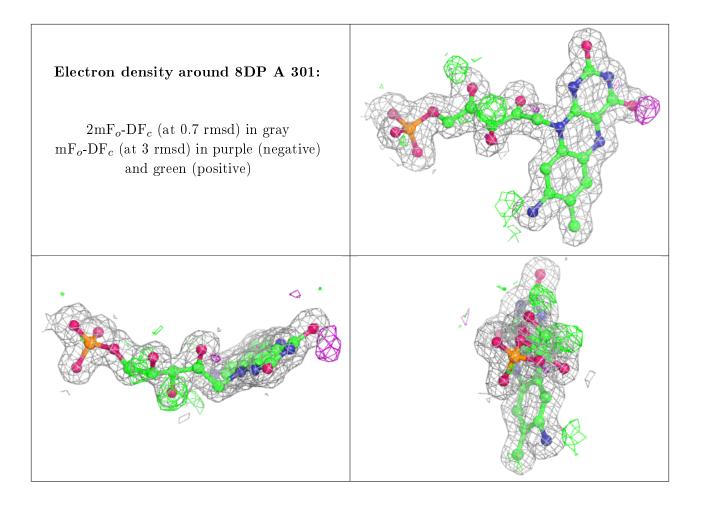




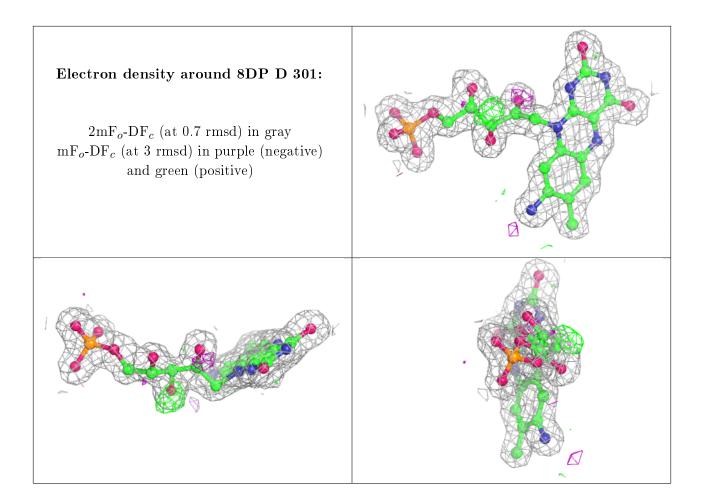












6.5 Other polymers (i)

There are no such residues in this entry.

