

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

### Feb 28, 2022 - 06:11 PM JST

PDB ID : 7VL5

Title: The complex structure of beta-1,2-glucosyltransferase from Ignavibacterium

album with n-octyl-beta-D-glucoside

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Deposited on : 2021-10-01

Resolution : 1.93 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: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.27

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)

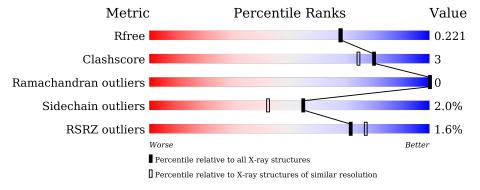
Validation Pipeline (wwPDB-VP) : 2.27

# 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 1.93 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}({\rm \AA})) \end{array}$
$R_{free}$	130704	4310 (1.96-1.92)
Clashscore	141614	1023 (1.94-1.94)
Ramachandran outliers	138981	1007 (1.94-1.94)
Sidechain outliers	138945	1007 (1.94-1.94)
RSRZ outliers	127900	4250 (1.96-1.92)

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	711	91%	8%	
1	В	711	89%	10%	



# 2 Entry composition (i)

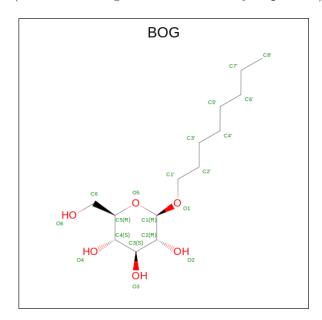
There are 4 unique types of molecules in this entry. The entry contains 12452 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Beta-galactosidase.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	706	Total 5836	C 3794	N 957	O 1069	S 16	0	0	0
1	В	703	Total 5815	C 3782	N 953	O 1064	S 16	0	0	0

• Molecule 2 is octyl beta-D-glucopyranoside (three-letter code: BOG) (formula: C<sub>14</sub>H<sub>28</sub>O<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 20 14 6	0	0
2	В	1	Total C O 20 14 6	0	0

• Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total Ca 1 1	0	0

### • Molecule 4 is water.

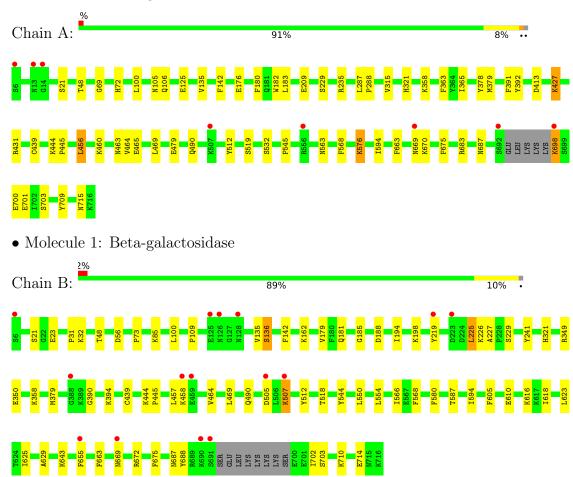
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	399	Total O 399 399	0	0
4	В	361	Total O 361 361	0	0



# 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: Beta-galactosidase





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	163.14Å 71.59Å 129.91Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 106.02° 90.00°	Depositor
Resolution (Å)	19.99 - 1.93	Depositor
Resolution (A)	19.99 - 1.93	EDS
% Data completeness	99.9 (19.99-1.93)	Depositor
(in resolution range)	100.0 (19.99-1.93)	EDS
$R_{merge}$	0.11	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.16 (at 1.93Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
D D	0.170 , 0.212	Depositor
$R, R_{free}$	0.179 , $0.221$	DCC
$R_{free}$ test set	5443 reflections $(5.03%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	20.0	Xtriage
Anisotropy	0.047	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.39, 43.2	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	12452	wwPDB-VP
Average B, all atoms $(Å^2)$	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.81% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<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: CA, BOG

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		
IVIOI	Cham	RMSZ	# Z  > 5	RMSZ	# Z >5	
1	A	0.73	$4/5986 \; (0.1\%)$	0.83	1/8082 (0.0%)	
1	В	0.70	0/5965	0.80	0/8055	
All	All	0.71	$4/11951 \ (0.0\%)$	0.82	1/16137 (0.0%)	

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	В	0	1

#### All (4) bond length outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
1	A	209	GLU	CD-OE2	5.91	1.32	1.25
1	A	209	GLU	CD-OE1	5.87	1.32	1.25
1	A	479	GLU	CD-OE1	-5.47	1.19	1.25
1	A	176	GLU	CD-OE2	5.36	1.31	1.25

#### All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
1	A	235	ARG	CB-CG-CD	5.17	125.06	111.60

There are no chirality outliers.

All (1) planarity outliers are listed below:



Mol	Chain	Res	Type	Group
1	В	185	GLY	Peptide

### 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	5836	0	5774	28	0
1	В	5815	0	5751	36	0
2	A	20	0	28	0	0
2	В	20	0	28	1	0
3	В	1	0	0	0	0
4	A	399	0	0	1	0
4	В	361	0	0	2	0
All	All	12452	0	11581	63	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 3.

All (63) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		$\operatorname{distance}\left(\mathrm{\AA}\right)$	overlap (Å)
1:A:105:ASN:ND2	4:A:901:HOH:O	2.09	0.83
1:B:136:SER:HB3	1:B:188:ASP:OD2	1.83	0.79
1:A:182:TRP:CZ2	1:A:456:LEU:HD13	2.25	0.72
1:B:623:LEU:HD21	1:B:625:ILE:HD11	1.75	0.69
1:B:505:ASP:OD2	1:B:507:LYS:HB2	1.98	0.63
1:A:182:TRP:CE2	1:A:456:LEU:HD13	2.34	0.62
1:B:580:PHE:HB3	1:B:643:LYS:HE2	1.82	0.61
1:B:219:TYR:CE2	1:B:225:LEU:HD23	2.38	0.59
1:A:463:ASN:OD1	1:A:465:GLU:OE1	2.21	0.58
1:B:100:LEU:HD21	1:B:179:VAL:HG11	1.86	0.58
1:A:358:LYS:HG3	4:B:1149:HOH:O	2.04	0.58
1:A:125:GLU:OE2	1:A:229:SER:HB2	2.05	0.57
1:A:183:LEU:HD23	1:A:456:LEU:HD22	1.86	0.57
1:B:616:LYS:HD3	1:B:618:ILE:HD11	1.88	0.55
1:B:229:SER:HA	1:B:241:TYR:OH	2.09	0.52
1:A:100:LEU:HD23	1:A:106:GLN:HB3	1.92	0.50



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A have 1		Interatomic	Clash
Atom-1	Atom-2	${\rm distance}(\mathring{\rm A})$	overlap (Å)
1:A:69:GLY:HA2	1:A:72:HIS:O	2.13	0.49
1:A:687:ASN:HA	1:A:700:GLU:O	2.13	0.49
1:B:321:HIS:HA	1:B:490:GLN:OE1	2.13	0.48
1:A:315:VAL:HG21	1:A:363:PHE:HB2	1.96	0.48
1:A:519:SER:O	1:A:545:PRO:HD2	2.15	0.47
1:A:427:LYS:O	1:A:431:ARG:HD2	2.14	0.47
1:A:464:VAL:HB	1:A:469:LEU:HB2	1.97	0.47
1:B:464:VAL:HB	1:B:469:LEU:HB2	1.97	0.47
1:B:21:SER:HA	1:B:48:THR:O	2.16	0.46
1:B:672:ARG:HD2	1:B:714:GLU:OE1	2.16	0.46
1:A:568:PHE:HA	1:A:594:ILE:O	2.15	0.46
1:B:23:GLU:HG2	1:B:379:MET:SD	2.56	0.45
1:B:439:CYS:HB2	1:B:512:TYR:CD2	2.51	0.45
1:B:669:ASN:OD1	1:B:669:ASN:N	2.49	0.45
1:A:444:LYS:N	1:A:445:PRO:CD	2.79	0.45
1:B:655:PHE:O	1:B:688:TYR:HA	2.17	0.45
1:A:391:PHE:CD1	1:A:392:TYR:CZ	3.04	0.45
1:A:663:PHE:HA	1:A:675:PHE:O	2.17	0.45
1:B:566:ILE:HD11	1:B:625:ILE:HD11	1.99	0.44
1:B:100:LEU:HD23	2:B:802:BOG:H2'1	1.99	0.44
1:A:287:LEU:N	1:A:288:PRO:CD	2.80	0.44
1:A:576:LYS:HE3	1:B:390:GLY:O	2.18	0.44
1:B:394:LYS:HE3	1:B:394:LYS:HB2	1.76	0.44
1:B:439:CYS:HB2	1:B:512:TYR:CG	2.53	0.44
1:B:349:ARG:HG3	1:B:350:GLU:HG3	2.01	0.43
1:B:56:ASP:OD1	1:B:109:PRO:HA	2.19	0.43
1:A:321:HIS:HA	1:A:490:GLN:OE1	2.19	0.42
1:B:135:VAL:HG21	1:B:142:PHE:CD1	2.55	0.42
1:B:194:ILE:HD12	1:B:227:ALA:HB2	2.00	0.42
1:A:21:SER:HA	1:A:48:THR:O	2.19	0.42
1:B:605:PHE:HA	1:B:610:GLU:O	2.19	0.42
1:A:365:ILE:HG13	1:A:709:TYR:CE2	2.55	0.42
1:B:518:THR:HA	1:B:544:TYR:O	2.20	0.42
1:A:135:VAL:HG21	1:A:142:PHE:CE1	2.55	0.41
1:B:85:LYS:HE3	4:B:1132:HOH:O	2.20	0.41
1:B:31:PRO:HG2	1:B:73:PRO:HB2	2.02	0.41
1:B:702:ILE:CD1	1:B:710:LYS:HG2	2.51	0.41
1:A:378:TYR:HA	1:A:379:MET:HA	1.92	0.41
1:A:698:LYS:HA	1:A:698:LYS:HE2	2.03	0.41
1:B:663:PHE:HA	1:B:675:PHE:O	2.21	0.41
1:A:439:CYS:HB2	1:A:512:TYR:CG	2.56	0.41



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COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Atom-1	Atom-2	$egin{aligned} &  ext{Interatomic} \ &  ext{distance (Å)} \end{aligned}$	Clash overlap (Å)
1:B:358:LYS:HA	1:B:358:LYS:HE2	2.03	0.41
1:B:550:LEU:HB3	1:B:554:LEU:HA	2.03	0.41
1:B:444:LYS:N	1:B:445:PRO:CD	2.84	0.41
1:A:532:SER:CB	1:A:563:ASN:HD22	2.34	0.40
1:B:568:PHE:HA	1:B:594:ILE:O	2.21	0.40
1:B:587:THR:HA	1:B:629:ALA:O	2.22	0.40

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	Perce	ntiles
1	A	702/711~(99%)	683 (97%)	19 (3%)	0	100	100
1	В	699/711~(98%)	671 (96%)	28 (4%)	0	100	100
All	All	$1401/1422\ (98\%)$	1354 (97%)	47 (3%)	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	639/644 (99%)	626 (98%)	13 (2%)	55 42
1	В	636/644 (99%)	624 (98%)	12 (2%)	57 45



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Mol	Chain	Analysed	sed Rotameric		Percentiles	
All	All	1275/1288~(99%)	1250 (98%)	25 (2%)	55 42	

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	180	PHE
1	A	413	ASP
1	A	427	LYS
1	A	456	LEU
1	A	460	LYS
1	A	576	LYS
1	A	669	ASN
1	A	670	LYS
1	A	683	ARG
1	A	698	LYS
1	A	701	GLU
1	A	703	SER
1	A	715	ASN
1	В	32	LYS
1	В	136	SER
1	В	162	LYS
1	В	181	GLN
1	В	198	LYS
1	В	225	LEU
1	В	226	LYS
1	В	457	LEU
1	В	458	LYS
1	В	507	LYS
1	В	687	ASN
1	В	703	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 3 ligands modelled in this entry, 1 is 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	Trus	Type Chain		Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
MIOI	Туре	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2																
2	BOG	A	801	-	20,20,20	0.73	0	25,25,25	0.63	0																
2	BOG	В	802	-	20,20,20	0.85	1 (5%)	25,25,25	0.92	0																

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	BOG	A	801	-	-	1/11/31/31	0/1/1/1
2	BOG	В	802	-	-	4/11/31/31	0/1/1/1

#### All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
2	В	802	BOG	O1-C1	2.75	1.44	1.40

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	802	BOG	C4'-C5'-C6'-C7'
2	В	802	BOG	C1'-C2'-C3'-C4'
2	A	801	BOG	C2'-C1'-O1-C1



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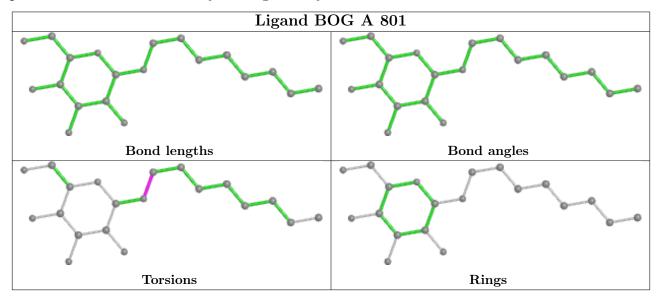
Mol	Chain	Res	Type	Atoms
2	В	802	BOG	C2'-C1'-O1-C1
2	В	802	BOG	C2'-C3'-C4'-C5'

There are no ring outliers.

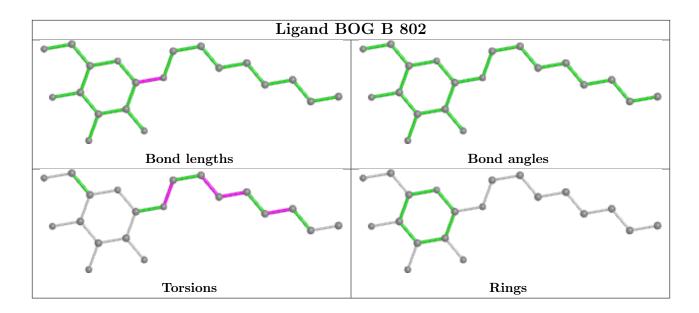
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	802	BOG	1	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	706/711 (99%)	-0.27	8 (1%) 80 84	12, 19, 35, 61	0
1	В	703/711 (98%)	-0.15	15 (2%) 63 70	12, 21, 43, 81	0
All	All	1409/1422 (99%)	-0.21	23 (1%) 72 77	12, 20, 39, 81	0

All (23) RSRZ outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	RSRZ
1	В	458	LYS	5.3
1	A	692	SER	4.9
1	A	6	SER	4.7
1	В	388	GLY	3.7
1	A	13	ASN	3.6
1	В	691	SER	3.5
1	В	125	GLU	3.1
1	В	6	SER	3.0
1	A	698	LYS	2.9
1	В	655	PHE	2.9
1	В	507	LYS	2.8
1	A	669	ASN	2.8
1	В	126	ASN	2.6
1	В	219	TYR	2.5
1	В	669	ASN	2.5
1	В	223	ASP	2.4
1	A	14	GLY	2.4
1	A	556	ARG	2.3
1	В	690	LYS	2.3
1	В	459	GLU	2.3
1	В	128	ASN	2.2
1	В	505	ASP	2.2
1	A	507	LYS	2.1



# 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.

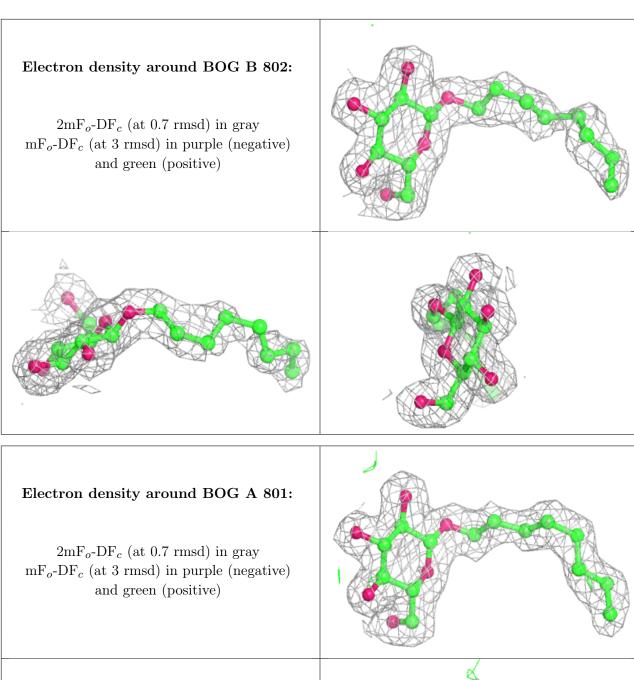
# 6.4 Ligands (i)

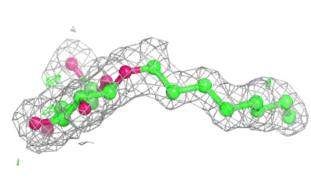
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

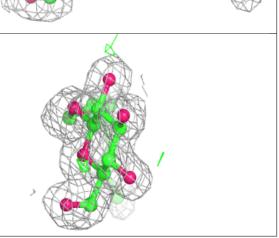
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	BOG	В	802	20/20	0.93	0.10	16,19,42,42	0
2	BOG	A	801	20/20	0.97	0.07	14,15,28,28	0
3	CA	В	801	1/1	0.99	0.05	18,18,18,18	0

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.

