



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:15 AM UTC

PDB ID : 5ABG / pdb_00005abg
Title : Structure of GH84 with ligand
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Deposited on : 2015-08-05
Resolution : 2.00 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

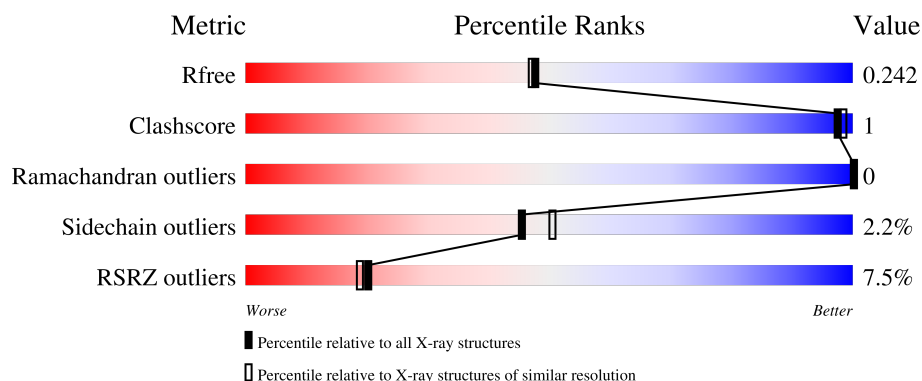
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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 $\leq 5\%$. 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	726	6% 88% 9%
1	B	726	8% 87% 9%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 21834 atoms, of which 10707 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.

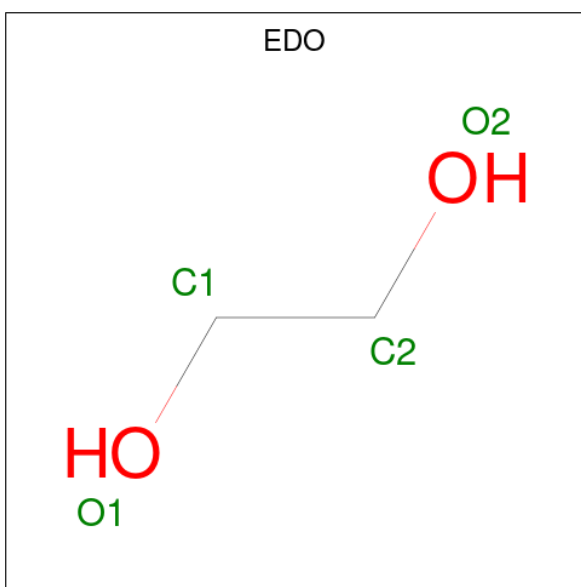
- Molecule 1 is a protein called O-GLCNACASE BT_4395.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	663	Total	C	H	N	O	S	0	3	0
			10732	3460	5334	912	1007	19			
1	B	662	Total	C	H	N	O	S	0	1	0
			10691	3445	5311	910	1006	19			

There are 20 discrepancies between the modelled and reference sequences:

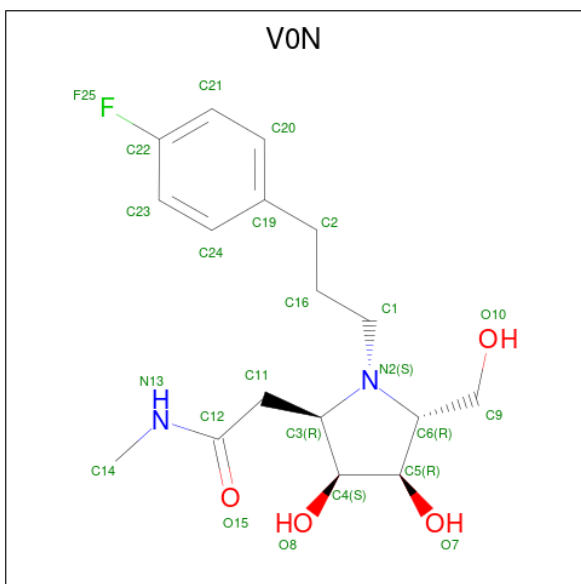
Chain	Residue	Modelled	Actual	Comment	Reference
A	-9	MET	-	expression tag	UNP Q89ZI2
A	-8	GLY	-	expression tag	UNP Q89ZI2
A	-7	SER	-	expression tag	UNP Q89ZI2
A	-6	SER	-	expression tag	UNP Q89ZI2
A	-5	HIS	-	expression tag	UNP Q89ZI2
A	-4	HIS	-	expression tag	UNP Q89ZI2
A	-3	HIS	-	expression tag	UNP Q89ZI2
A	-2	HIS	-	expression tag	UNP Q89ZI2
A	-1	HIS	-	expression tag	UNP Q89ZI2
A	0	HIS	-	expression tag	UNP Q89ZI2
B	-9	MET	-	expression tag	UNP Q89ZI2
B	-8	GLY	-	expression tag	UNP Q89ZI2
B	-7	SER	-	expression tag	UNP Q89ZI2
B	-6	SER	-	expression tag	UNP Q89ZI2
B	-5	HIS	-	expression tag	UNP Q89ZI2
B	-4	HIS	-	expression tag	UNP Q89ZI2
B	-3	HIS	-	expression tag	UNP Q89ZI2
B	-2	HIS	-	expression tag	UNP Q89ZI2
B	-1	HIS	-	expression tag	UNP Q89ZI2
B	0	HIS	-	expression tag	UNP Q89ZI2

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 3 is 2-[(2R,3S,4R,5R)-1-[3-(4-fluorophenyl)propyl]-5-(hydroxymethyl)-3,4-bis(oxidanyl)pyrrolidin-2-yl]-N-methyl-ethanamide (CCD ID: V0N) (formula: $C_{17}H_{25}FN_2O_4$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	F	H	N	O	0	0
			49	17	1	25	2	4		

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	B	1	Total	C	F	H	N	O	0	0
			49	17	1	25	2	4		

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Ca	0	0
			1	1		

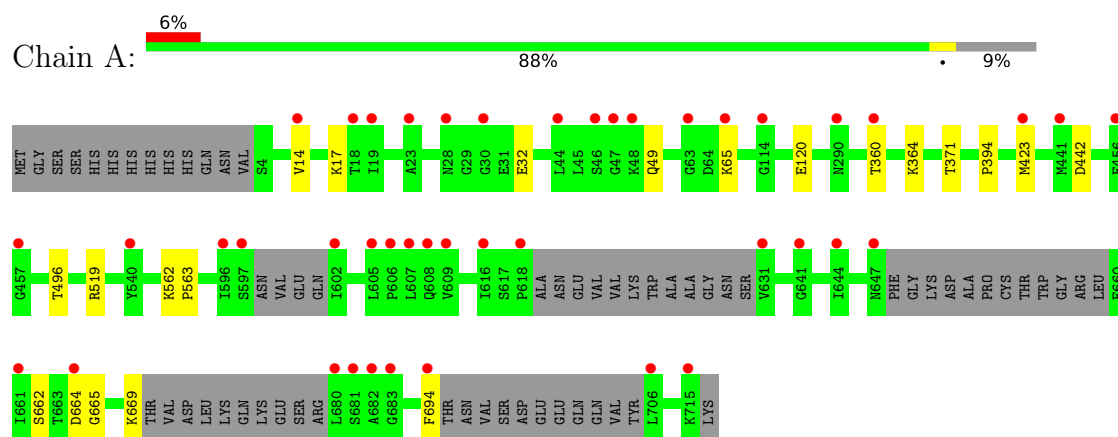
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	148	Total	O	0	0
			148	148		
5	B	144	Total	O	0	0
			144	144		

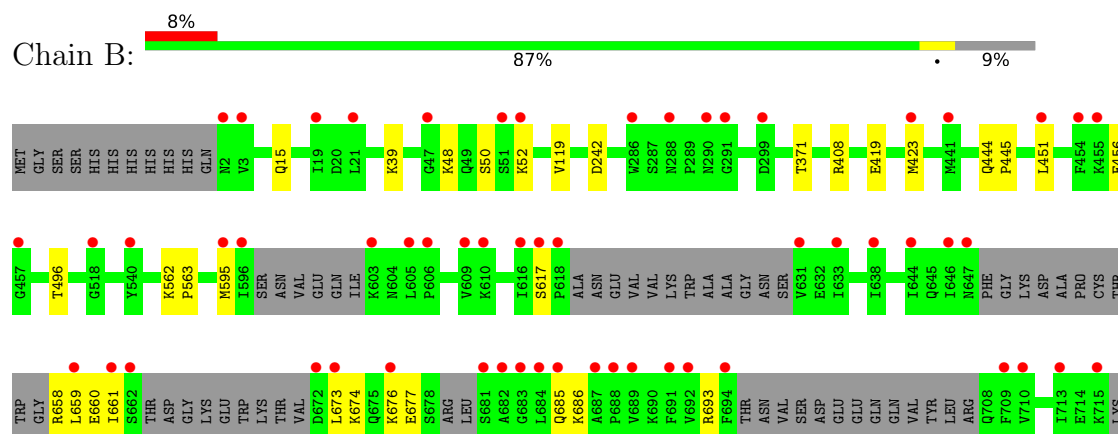
3 Residue-property plots [i](#)

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: O-GLCNACASE BT_4395



• Molecule 1: O-GLCNACASE BT_4395



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.53Å 161.18Å 223.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.44 – 2.00 48.44 – 2.00	Depositor EDS
% Data completeness (in resolution range)	98.7 (48.44-2.00) 84.6 (48.44-2.00)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtrriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.204 , 0.235 0.213 , 0.242	Depositor DCC
R_{free} test set	6306 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	(Not available)	Xtrriage
Anisotropy	(Not available)	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 48.6	EDS
L-test for twinning ¹	$\langle L \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	21834	wwPDB-VP
Average B, all atoms (Å ²)	69.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *(Not available)*

¹Theoretical 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: V0N, CA, 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	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.29	0/5544	0.60	0/7506
1	B	0.29	0/5512	0.60	0/7460
All	All	0.29	0/11056	0.60	0/14966

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	5398	5334	5325	6	0
1	B	5380	5311	5310	11	0
2	A	4	6	6	0	0
2	B	4	6	6	0	0
3	A	24	25	25	0	0
3	B	24	25	25	0	0
4	B	1	0	0	0	0
5	A	148	0	0	0	0
5	B	144	0	0	0	0
All	All	11127	10707	10697	17	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 1.

All (17) 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:662:SER:OG	1:A:664:ASP:O	2.20	0.60
1:B:676:LYS:CB	1:B:677:GLU:HA	2.34	0.58
1:A:360:THR:OG1	1:A:394:PRO:O	2.21	0.58
1:B:408:ARG:NH1	1:B:419:GLU:OE2	2.38	0.57
1:A:32:GLU:OE2	1:A:65:LYS:NZ	2.29	0.55
1:B:676:LYS:HB3	1:B:677:GLU:HA	1.94	0.50
1:B:50:SER:OG	1:B:52:LYS:O	2.24	0.49
1:A:664:ASP:OD1	1:A:665:GLY:N	2.47	0.47
1:B:562:LYS:HB3	1:B:563:PRO:HD3	1.98	0.44
1:A:562[B]:LYS:HB3	1:A:563:PRO:HD3	2.01	0.43
1:A:442:ASP:OD1	1:A:442:ASP:N	2.53	0.42
1:B:444:GLN:N	1:B:445:PRO:HD2	2.35	0.42
1:B:660:GLU:HB2	1:B:693:ARG:HB3	2.02	0.41
1:B:660:GLU:CG	1:B:661:ILE:H	2.33	0.41
1:B:242:ASP:OD1	1:B:242:ASP:N	2.54	0.41
1:B:676:LYS:CB	1:B:677:GLU:CA	2.99	0.40
1:B:658:ARG:C	1:B:659:LEU:HD22	2.47	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	654/726 (90%)	625 (96%)	29 (4%)	0	100	100
1	B	649/726 (89%)	626 (96%)	23 (4%)	0	100	100
All	All	1303/1452 (90%)	1251 (96%)	52 (4%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	587/639 (92%)	575 (98%)	12 (2%)	48	54
1	B	585/639 (92%)	569 (97%)	16 (3%)	39	42
All	All	1172/1278 (92%)	1144 (98%)	28 (2%)	45	47

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	VAL
1	A	17	LYS
1	A	49	GLN
1	A	120	GLU
1	A	364	LYS
1	A	371	THR
1	A	423[A]	MET
1	A	423[B]	MET
1	A	496	THR
1	A	519	ARG
1	A	669	LYS
1	A	694	PHE
1	B	15	GLN
1	B	39	LYS
1	B	48	LYS
1	B	119	VAL
1	B	371	THR
1	B	423[A]	MET
1	B	423[B]	MET
1	B	451	LEU
1	B	456	GLU
1	B	496	THR
1	B	595	MET
1	B	617	SER
1	B	673	LEU
1	B	674	LYS
1	B	685	GLN

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Mol	Chain	Res	Type
1	B	686	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	292	ASN
1	A	339	ASN
1	A	372	ASN
1	A	583	HIS
1	B	73	GLN
1	B	156	ASN
1	B	267	GLN
1	B	647	ASN
1	B	708	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](#)

Of 5 ligands modelled in this entry, 1 is monoatomic - leaving 4 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	EDO	B	1717	-	3,3,3	0.43	0	2,2,2	0.28	0
3	V0N	B	1718	-	25,25,25	0.61	0	31,34,34	0.97	1 (3%)
3	V0N	A	1717	-	25,25,25	0.58	0	31,34,34	1.12	3 (9%)
2	EDO	A	1716	-	3,3,3	0.42	0	2,2,2	0.33	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	EDO	B	1717	-	-	0/1/1/1	-
3	V0N	B	1718	-	-	3/14/34/34	0/2/2/2
3	V0N	A	1717	-	-	4/14/34/34	0/2/2/2
2	EDO	A	1716	-	-	0/1/1/1	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1717	V0N	C23-C22-C21	-2.20	119.91	122.80
3	A	1717	V0N	C1-C16-C2	-2.13	107.47	113.05
3	A	1717	V0N	C1-N2-C3	-2.12	109.70	114.05
3	B	1718	V0N	C23-C22-C21	-2.08	120.07	122.80

There are no chirality outliers.

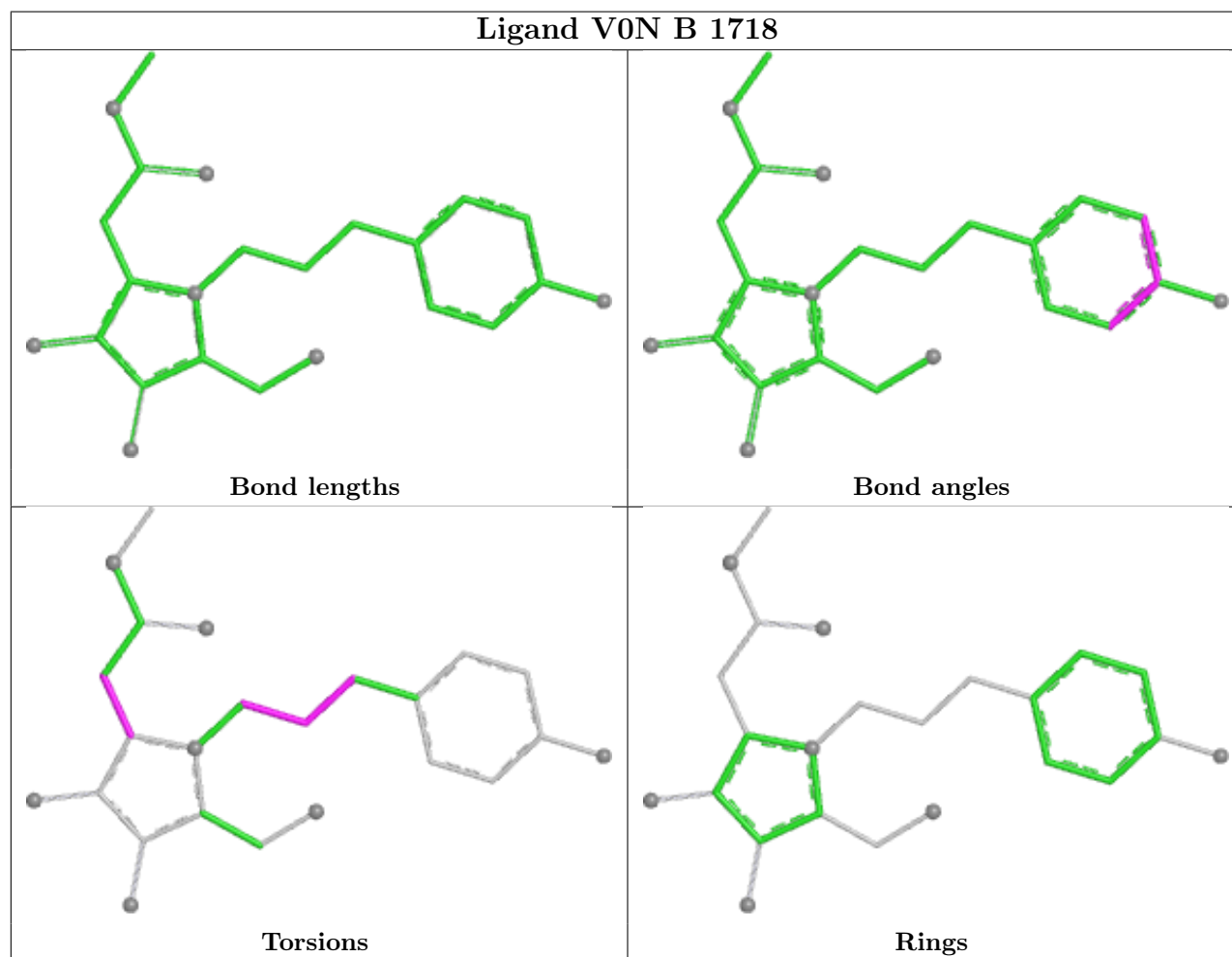
All (7) torsion outliers are listed below:

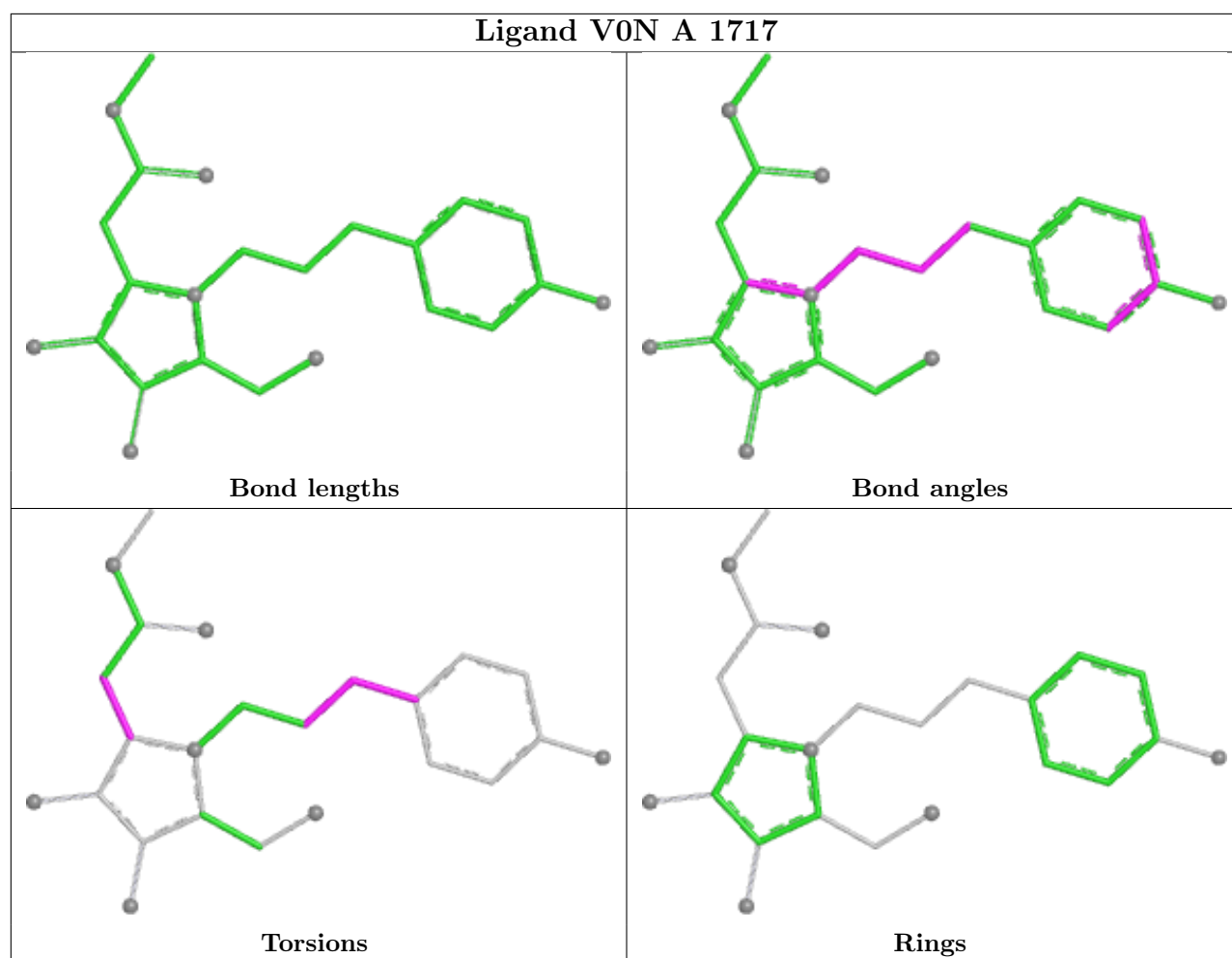
Mol	Chain	Res	Type	Atoms
3	A	1717	V0N	C1-C16-C2-C19
3	A	1717	V0N	C12-C11-C3-N2
3	B	1718	V0N	C12-C11-C3-N2
3	B	1718	V0N	N2-C1-C16-C2
3	B	1718	V0N	C1-C16-C2-C19
3	A	1717	V0N	C24-C19-C2-C16
3	A	1717	V0N	C20-C19-C2-C16

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, 95th 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 ²)	Q<0.9
1	A	663/726 (91%)	0.48	43 (6%)	25	23	29, 62, 124, 163	2 (0%)
1	B	662/726 (91%)	0.47	57 (8%)	16	15	32, 59, 123, 179	1 (0%)
All	All	1325/1452 (91%)	0.47	100 (7%)	20	19	29, 61, 124, 179	3 (0%)

All (100) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	680	LEU	6.4
1	A	631	VAL	5.8
1	A	423[A]	MET	5.7
1	B	618	PRO	5.1
1	B	661	ILE	5.1
1	A	694	PHE	5.0
1	B	3	VAL	5.0
1	B	518	GLY	4.7
1	A	661	ILE	4.5
1	A	616	ILE	4.4
1	B	644	ILE	4.4
1	B	683	GLY	4.3
1	B	646	ILE	4.1
1	B	715	LYS	4.1
1	A	605	LEU	4.0
1	B	596	ILE	4.0
1	A	706	LEU	4.0
1	B	647	ASN	3.9
1	B	603	LYS	3.8
1	A	681	SER	3.7
1	B	692	VAL	3.7
1	A	47	GLY	3.6
1	A	607	LEU	3.6
1	B	423[A]	MET	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	647	ASN	3.5
1	A	644	ILE	3.4
1	A	683	GLY	3.4
1	B	47	GLY	3.4
1	B	709	PHE	3.3
1	B	694	PHE	3.3
1	B	631	VAL	3.2
1	B	684	LEU	3.1
1	A	441	MET	3.1
1	B	681	SER	3.1
1	B	689	VAL	3.1
1	B	290	ASN	3.1
1	A	682	ALA	3.1
1	B	21	LEU	3.1
1	B	673	LEU	3.1
1	B	662	SER	2.9
1	B	638	ILE	2.9
1	B	691	PHE	2.9
1	B	617	SER	2.8
1	A	597	SER	2.8
1	B	616	ILE	2.8
1	B	454	PHE	2.7
1	B	451	LEU	2.7
1	B	605	LEU	2.7
1	A	606	PRO	2.7
1	B	659	LEU	2.7
1	B	633	ILE	2.7
1	A	23	ALA	2.7
1	B	540	TYR	2.7
1	B	713	ILE	2.7
1	A	715	LYS	2.7
1	A	290	ASN	2.6
1	A	602	ILE	2.6
1	B	672	ASP	2.6
1	A	48	LYS	2.5
1	A	596	ILE	2.5
1	A	30	GLY	2.5
1	B	682	ALA	2.5
1	A	65	LYS	2.5
1	B	610	LYS	2.5
1	A	360	THR	2.4
1	A	618	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	606	PRO	2.4
1	B	685	GLN	2.4
1	B	291	GLY	2.3
1	B	441	MET	2.3
1	A	14	VAL	2.3
1	B	687	ALA	2.3
1	A	28	ASN	2.3
1	B	2	ASN	2.3
1	B	299	ASP	2.3
1	A	46	SER	2.2
1	B	51	SER	2.2
1	A	19	ILE	2.2
1	B	688	PRO	2.2
1	B	595	MET	2.2
1	A	63	GLY	2.2
1	A	540	TYR	2.2
1	B	19	ILE	2.2
1	A	114	GLY	2.2
1	B	457	GLY	2.2
1	A	44	LEU	2.2
1	B	288	ASN	2.2
1	B	286	TRP	2.2
1	A	457	GLY	2.1
1	A	18	THR	2.1
1	B	609	VAL	2.1
1	B	455	LYS	2.1
1	B	676	LYS	2.1
1	A	664	ASP	2.1
1	B	52	LYS	2.1
1	A	608	GLN	2.1
1	A	609	VAL	2.1
1	A	456	GLU	2.0
1	B	710	VAL	2.0
1	A	641	GLY	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

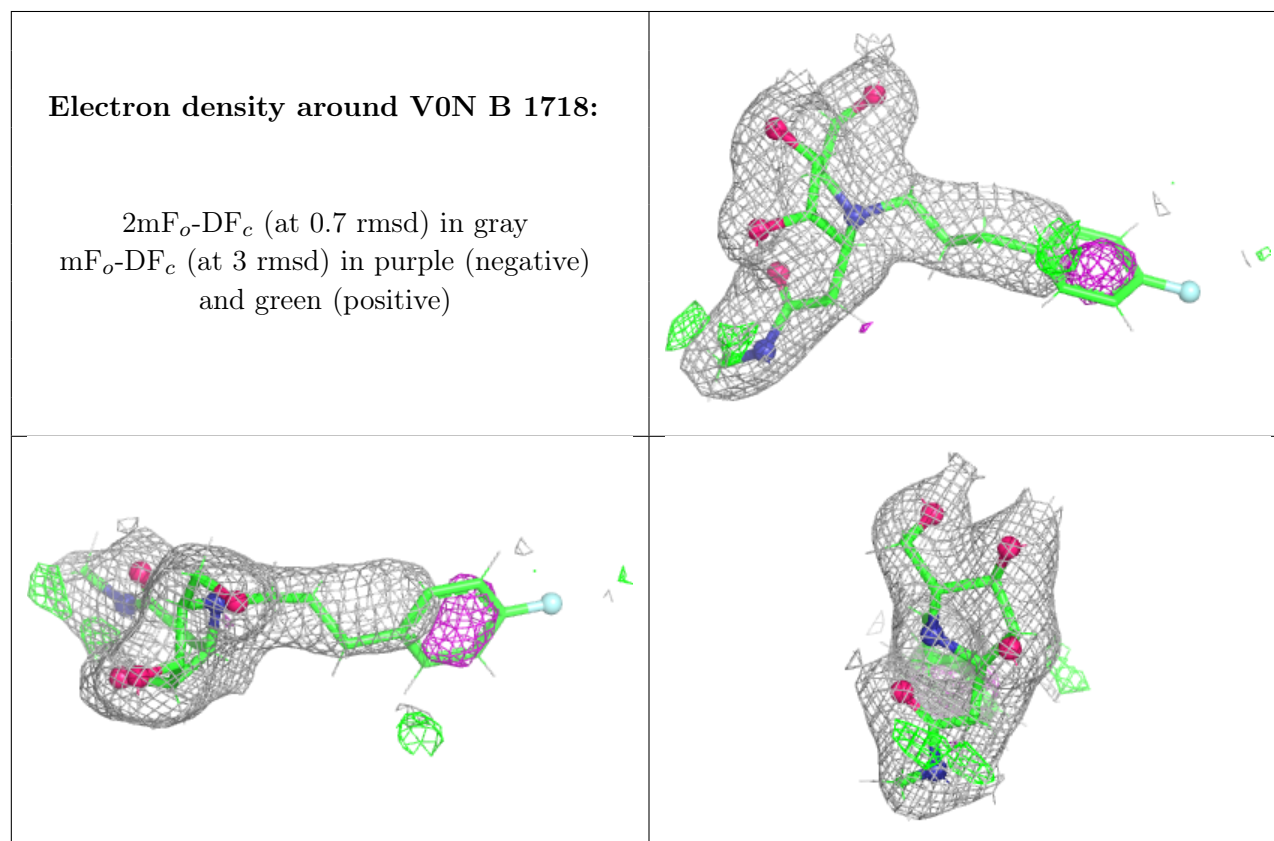
There are no oligosaccharides in this entry.

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, 95th 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.

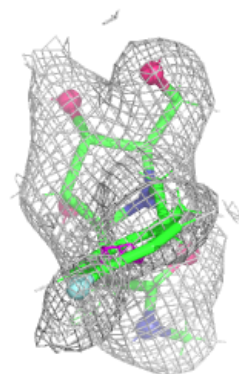
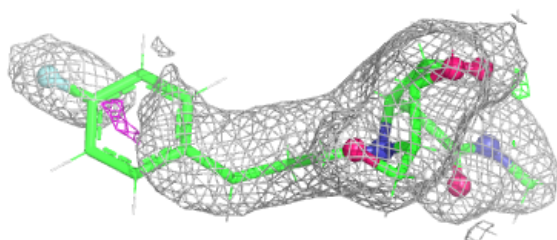
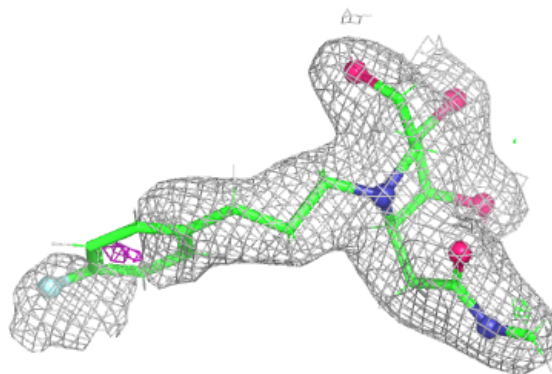
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	B	1717	4/4	0.91	0.14	50,60,67,67	0
3	V0N	B	1718	24/24	0.91	0.13	40,53,111,116	0
3	V0N	A	1717	24/24	0.93	0.12	37,52,98,106	0
2	EDO	A	1716	4/4	0.93	0.12	48,58,70,70	0
4	CA	B	1716	1/1	0.99	0.04	50,50,50,50	0

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 V0N A 1717:

$2mF_o - DF_c$ (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.