



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 10:06 PM UTC

PDB ID : 3T3I / pdb_00003t3i
Title : Glycogen Phosphorylase b in complex with GlcCF3U
Authors : Kantsadi, A.L.; Skamnaki, V.T.; Leonidas, D.D.
Deposited on : 2011-07-25
Resolution : 2.65 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

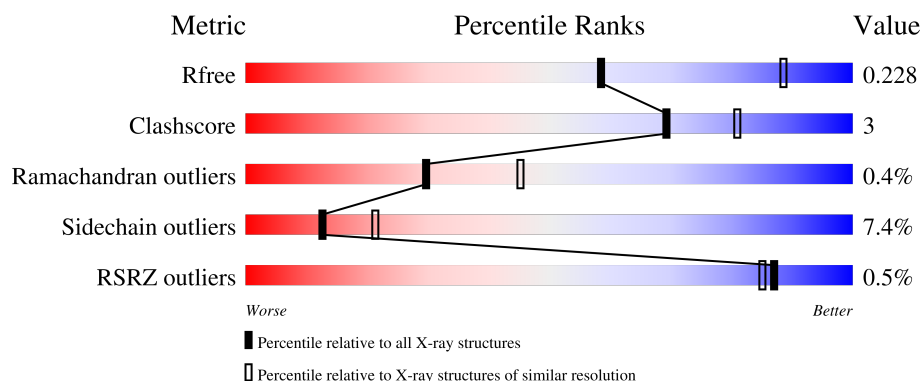
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.65 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	1110 (2.66-2.66)
Clashscore	190562	1141 (2.66-2.66)
Ramachandran outliers	187476	1126 (2.66-2.66)
Sidechain outliers	187428	1126 (2.66-2.66)
RSRZ outliers	180081	1110 (2.66-2.66)

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 $\leq 5\%$. 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	842	

2 Entry composition [i](#)

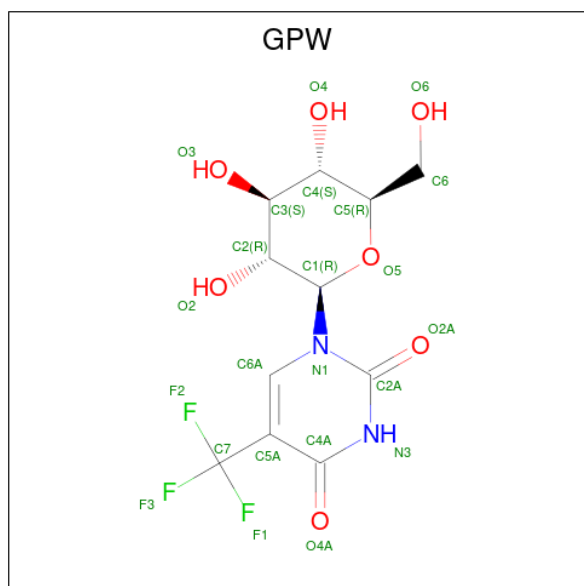
There are 3 unique types of molecules in this entry. The entry contains 6777 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycogen phosphorylase, muscle form.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	810	Total	C	N	O	P	S	0	1	0
			6606	4210	1161	1204	1	30			

- Molecule 2 is 1-(beta-D-glucopyranosyl)-5-(trifluoromethyl)pyrimidine-2,4(1H,3H)-dione (CCD ID: GPW) (formula: C₁₁H₁₃F₃N₂O₇).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			23	11	3	2	7		

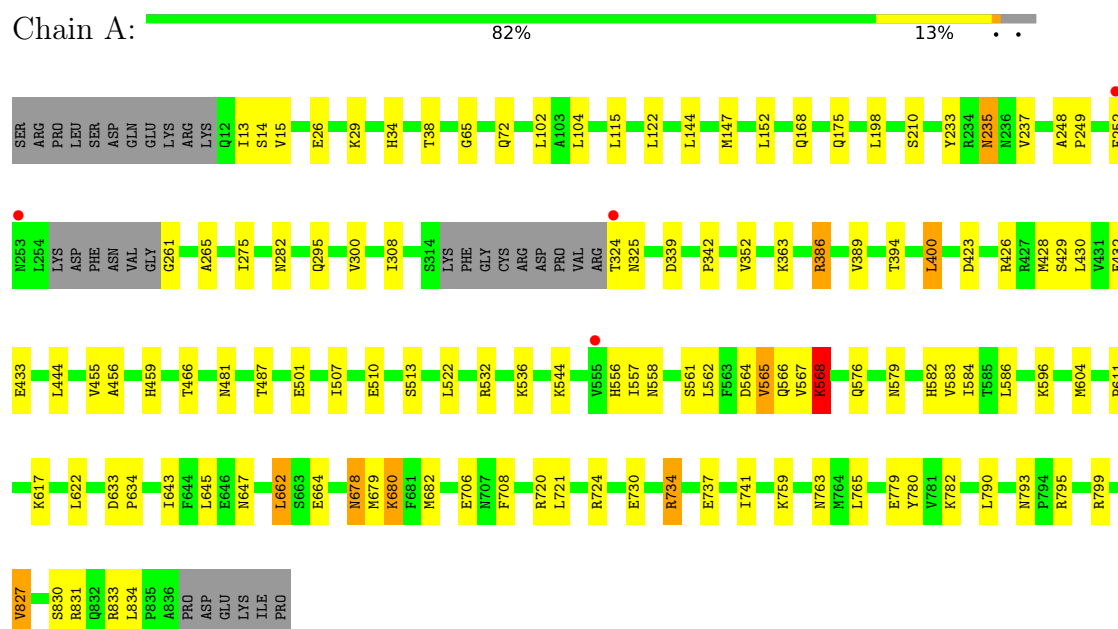
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	148	Total	O	0	0
			148	148		

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: Glycogen phosphorylase, muscle form



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	128.76Å 128.76Å 116.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	13.78 – 2.65 13.78 – 2.65	Depositor EDS
% Data completeness (in resolution range)	94.5 (13.78-2.65) 94.5 (13.78-2.65)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.06 (at 2.64Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.159 , 0.235 0.157 , 0.228	Depositor DCC
R_{free} test set	1394 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	32.2	Xtriage
Anisotropy	0.117	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 40.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6777	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.00% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LLP, GPW

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	0.94	2/6732 (0.0%)	1.06	14/9110 (0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	466	THR	CA-CB	5.60	1.61	1.53
1	A	265	ALA	CA-CB	-5.09	1.45	1.53

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	325	ASN	N-CA-C	7.06	120.48	107.99
1	A	507	ILE	N-CA-C	6.24	119.77	113.47
1	A	248	ALA	CA-C-N	-6.22	114.36	120.52
1	A	248	ALA	C-N-CA	-6.22	114.36	120.52
1	A	487	THR	CA-C-N	-6.07	113.56	119.87
1	A	487	THR	C-N-CA	-6.07	113.56	119.87
1	A	647	ASN	N-CA-C	5.99	119.68	111.54
1	A	682	MET	N-CA-C	-5.72	105.13	111.36
1	A	233	TYR	N-CA-C	5.52	117.46	108.63
1	A	556	HIS	N-CA-C	5.51	118.48	107.62
1	A	793	ASN	CA-C-N	5.38	126.56	119.84
1	A	793	ASN	C-N-CA	5.38	126.56	119.84
1	A	557	ILE	N-CA-C	5.22	116.11	108.53
1	A	65	GLY	N-CA-C	-5.18	106.50	112.50

There are no chirality outliers.

There are no planarity outliers.

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	6606	0	6540	46	0
2	A	23	0	0	0	0
3	A	148	0	0	4	0
All	All	6777	0	6540	46	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 (46) 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:261:GLY:HA3	3:A:983:HOH:O	1.45	1.16
1:A:386:ARG:HG2	1:A:386:ARG:HH21	1.32	0.93
1:A:678:ASN:HD22	1:A:679:MET:H	1.22	0.88
1:A:455:VAL:H	1:A:459:HIS:HD2	1.18	0.86
1:A:678:ASN:ND2	1:A:679:MET:H	1.85	0.74
1:A:386:ARG:HG2	1:A:386:ARG:NH2	2.08	0.66
1:A:144:LEU:HD23	1:A:147:MET:HE1	1.80	0.63
1:A:737:GLU:HG3	3:A:950:HOH:O	1.98	0.62
1:A:168:GLN:HG3	1:A:175:GLN:HG3	1.82	0.61
1:A:678:ASN:HD22	1:A:679:MET:N	1.94	0.61
1:A:34:HIS:HD2	1:A:38:THR:OG1	1.85	0.60
1:A:455:VAL:H	1:A:459:HIS:CD2	2.10	0.59
1:A:432:GLU:HG3	3:A:968:HOH:O	2.02	0.58
1:A:759:LYS:O	1:A:763:ASN:HB2	2.05	0.57
1:A:282:ASN:ND2	3:A:962:HOH:O	2.38	0.56
1:A:455:VAL:N	1:A:459:HIS:HD2	1.98	0.56
1:A:579:ASN:O	1:A:583:VAL:HG23	2.06	0.55
1:A:456:ALA:C	1:A:481:ASN:HD21	2.14	0.55
1:A:144:LEU:HD23	1:A:147:MET:CE	2.36	0.55
1:A:144:LEU:HA	1:A:147:MET:CE	2.39	0.53
1:A:558:ASN:O	1:A:561:SER:OG	2.28	0.52
1:A:235:ASN:H	1:A:235:ASN:HD22	1.57	0.52
1:A:680:LLP:O3	1:A:680:LLP:NZ	2.42	0.52
1:A:562:LEU:HD21	1:A:662:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:678:ASN:ND2	1:A:679:MET:N	2.57	0.51
1:A:795:ARG:O	1:A:799:ARG:HG3	2.12	0.49
1:A:566:GLN:HE22	1:A:576:GLN:HA	1.78	0.49
1:A:308:ILE:HD13	1:A:352:VAL:HG11	1.95	0.48
1:A:249:PRO:O	1:A:252:PHE:HB2	2.14	0.47
1:A:730:GLU:O	1:A:734:ARG:CG	2.63	0.46
1:A:567:VAL:O	1:A:568:LYS:HB3	2.14	0.46
1:A:275:ILE:O	1:A:295:GLN:HG2	2.17	0.44
1:A:428:MET:O	1:A:429:SER:C	2.59	0.43
1:A:611:PRO:O	1:A:617:LYS:HE3	2.18	0.43
1:A:386:ARG:NH2	1:A:386:ARG:CG	2.75	0.43
1:A:389:VAL:HG13	1:A:400:LEU:HD11	1.99	0.43
1:A:565:VAL:HA	1:A:604:MET:O	2.18	0.43
1:A:730:GLU:O	1:A:734:ARG:HG3	2.19	0.43
1:A:584:ILE:HG22	1:A:741:ILE:HG12	2.00	0.43
1:A:564:ASP:OD2	1:A:664:GLU:OE1	2.36	0.43
1:A:237:VAL:HG22	1:A:834:LEU:HD12	2.02	0.42
1:A:14:SER:HB3	1:A:501:GLU:OE1	2.20	0.41
1:A:633:ASP:HA	1:A:634:PRO:HD3	1.96	0.41
1:A:152:LEU:HD22	1:A:827:VAL:HG21	2.03	0.40
1:A:582:HIS:HB2	1:A:780:TYR:CE2	2.57	0.40
1:A:730:GLU:O	1:A:734:ARG:HG2	2.21	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	Percentiles	
1	A	804/842 (96%)	768 (96%)	33 (4%)	3 (0%)	30	45

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	510	GLU
1	A	568	LYS
1	A	342	PRO

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	701/730 (96%)	649 (93%)	52 (7%)	13	21

All (52) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ILE
1	A	15	VAL
1	A	26	GLU
1	A	29	LYS
1	A	72	GLN
1	A	102	LEU
1	A	104	LEU
1	A	115	LEU
1	A	122	LEU
1	A	198	LEU
1	A	210	SER
1	A	235	ASN
1	A	300	VAL
1	A	324	THR
1	A	339	ASP
1	A	363	LYS
1	A	386	ARG
1	A	394	THR
1	A	400	LEU
1	A	423	ASP
1	A	426	ARG
1	A	430	LEU
1	A	433	GLU
1	A	444	LEU

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Mol	Chain	Res	Type
1	A	513	SER
1	A	522	LEU
1	A	532	ARG
1	A	536	LYS
1	A	544	LYS
1	A	565	VAL
1	A	568	LYS
1	A	586	LEU
1	A	596	LYS
1	A	622	LEU
1	A	643	ILE
1	A	645	LEU
1	A	662	LEU
1	A	678	ASN
1	A	706	GLU
1	A	708	PHE
1	A	720	ARG
1	A	721	LEU
1	A	724	ARG
1	A	734	ARG
1	A	765	LEU
1	A	779	GLU
1	A	782	LYS
1	A	790	LEU
1	A	827	VAL
1	A	830	SER
1	A	831	ARG
1	A	833	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	23	ASN
1	A	34	HIS
1	A	36	HIS
1	A	71	GLN
1	A	96	GLN
1	A	235	ASN
1	A	270	ASN
1	A	282	ASN
1	A	412	ASN
1	A	443	HIS

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Mol	Chain	Res	Type
1	A	450	HIS
1	A	459	HIS
1	A	481	ASN
1	A	484	ASN
1	A	566	GLN
1	A	579	ASN
1	A	678	ASN
1	A	767	HIS
1	A	832	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	LLP	A	680	1	23,24,25	1.44	4 (17%)	25,32,34	1.75	4 (16%)

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	LLP	A	680	1	-	2/16/17/19	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	680	LLP	O3-C3	-4.57	1.26	1.36
1	A	680	LLP	C4-C4'	2.38	1.51	1.46
1	A	680	LLP	C4'-NZ	2.14	1.34	1.27
1	A	680	LLP	C2-N1	2.03	1.37	1.33

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	680	LLP	C4-C3-C2	-4.21	117.77	120.14
1	A	680	LLP	C5-C6-N1	-3.78	117.68	123.83
1	A	680	LLP	C4-C4'-NZ	-2.72	111.51	124.04
1	A	680	LLP	C6-N1-C2	2.27	123.31	119.20

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	680	LLP	C4-C5-C5'-OP4
1	A	680	LLP	C6-C5-C5'-OP4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	680	LLP	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand 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
2	GPW	A	843	-	23,24,24	1.40	4 (17%)	31,37,37	1.93	6 (19%)

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	GPW	A	843	-	-	2/12/32/32	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	843	GPW	C7-C5A	3.48	1.55	1.49
2	A	843	GPW	C2A-N1	2.30	1.42	1.38
2	A	843	GPW	C2-C1	2.28	1.57	1.52
2	A	843	GPW	C2A-N3	2.12	1.41	1.38

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	843	GPW	C4A-N3-C2A	-6.63	118.65	127.34
2	A	843	GPW	N3-C2A-N1	4.29	120.47	114.89
2	A	843	GPW	O5-C1-N1	3.58	112.27	106.80
2	A	843	GPW	O2A-C2A-N1	-2.62	119.38	122.80
2	A	843	GPW	O5-C5-C6	-2.61	99.96	106.44
2	A	843	GPW	O5-C5-C4	2.16	113.58	109.70

There are no chirality outliers.

All (2) torsion outliers are listed below:

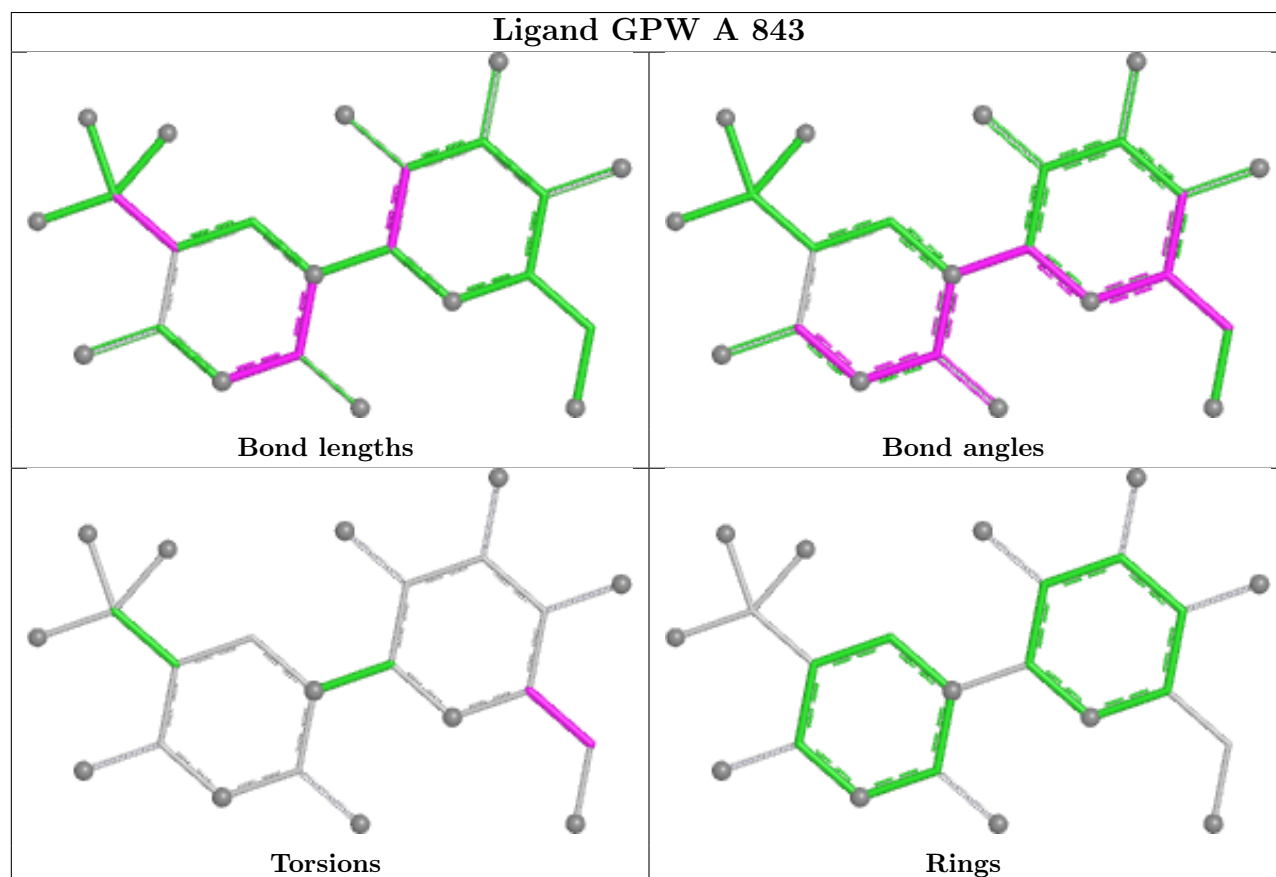
Mol	Chain	Res	Type	Atoms
2	A	843	GPW	C4-C5-C6-O6
2	A	843	GPW	O5-C5-C6-O6

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	809/842 (96%)	-0.88	4 (0%) 87 85	11, 24, 46, 74	1 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	252	PHE	3.2
1	A	324	THR	3.0
1	A	253	ASN	2.3
1	A	555	VAL	2.1

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, 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(Å ²)	Q<0.9
1	LLP	A	680	24/25	0.98	0.04	11,17,19,20	0

6.3 Carbohydrates [i](#)

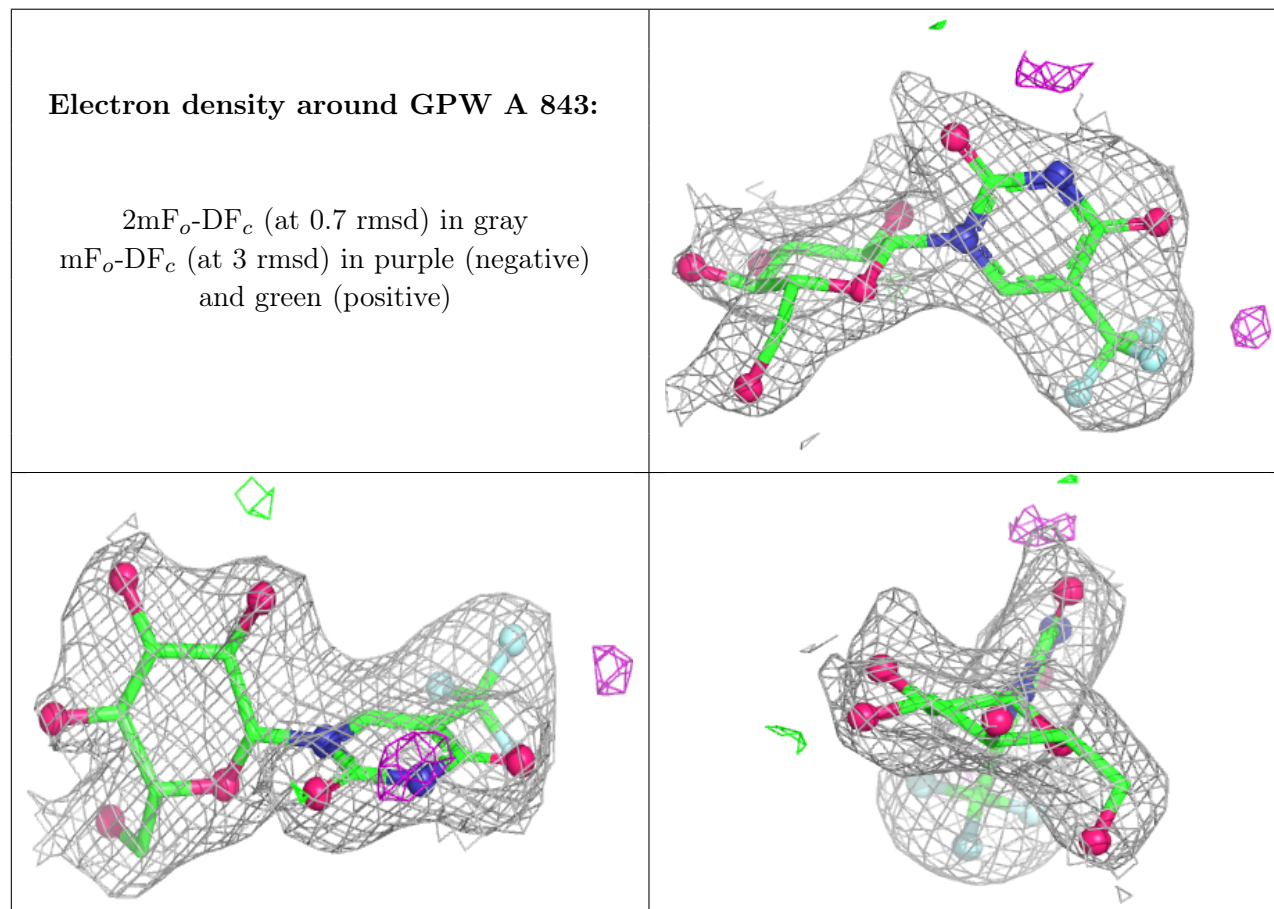
There are no oligosaccharides in this entry.

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	GPW	A	843	23/23	0.97	0.05	20,25,28,30	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 ⓘ

There are no such residues in this entry.