



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 09:26 AM UTC

PDB ID : 8XRU / pdb_00008xru
Title : The crystal structure of a GH3 enzyme CcBgl3B with glycerol
Authors : Su, J.Y.
Deposited on : 2024-01-08
Resolution : 2.02 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
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

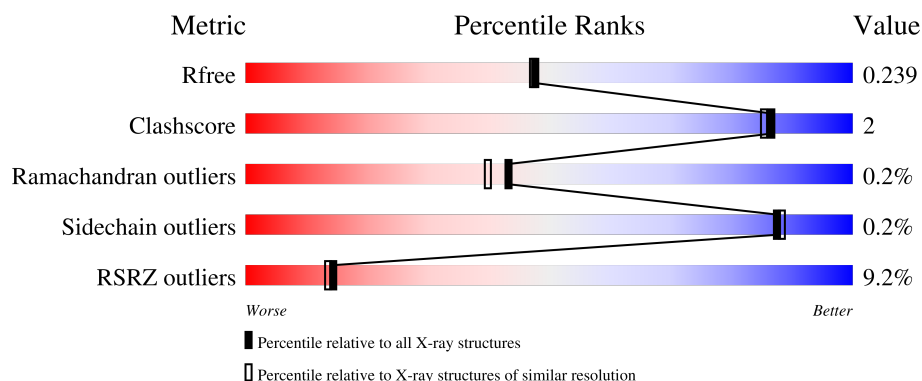
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.02 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	13299 (2.04-2.00)
Clashscore	190562	1022 (2.02-2.02)
Ramachandran outliers	187476	1014 (2.02-2.02)
Sidechain outliers	187428	1014 (2.02-2.02)
RSRZ outliers	180081	13314 (2.04-2.00)

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	768	2% 92% 6%
1	B	768	2% 94% .
1	C	768	16% 21% 76%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 14015 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 GH3 enzyme CcBgl3B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	751	Total	C	N	O	S	0	0	0
			5623	3538	999	1071	15			
1	B	747	Total	C	N	O	S	0	0	0
			5593	3522	995	1061	15			
1	C	184	Total	C	N	O		0	0	0
			1260	791	230	239				

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Ca	0	0
			1	1		
3	B	1	Total	Ca	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	700	Total	O	0	0
			700	700		
4	B	755	Total	O	0	0
			755	755		
4	C	58	Total	O	0	0
			58	58		

- Molecule 1: GH3 enzyme CcBgl3B





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	162.99Å 182.05Å 145.28Å 90.00° 102.01° 90.00°	Depositor
Resolution (Å)	19.85 – 2.02 19.85 – 2.02	Depositor EDS
% Data completeness (in resolution range)	98.9 (19.85-2.02) 98.8 (19.85-2.02)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.90 (at 2.02Å)	Xtriage
Refinement program	PHENIX (1.18.2_3874: ???)	Depositor
R, R_{free}	0.205 , 0.235 0.209 , 0.239	Depositor DCC
R_{free} test set	2000 reflections (0.74%)	wwPDB-VP
Wilson B-factor (Å ²)	28.2	Xtriage
Anisotropy	0.854	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	14015	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.04% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.37	0/5746	0.57	0/7859
1	B	0.33	0/5714	0.55	0/7812
1	C	0.34	0/1269	0.63	0/1730
All	All	0.35	0/12729	0.57	0/17401

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	5623	0	5538	27	0
1	B	5593	0	5511	15	0
1	C	1260	0	1240	12	0
2	A	12	0	16	0	0
2	B	12	0	16	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	700	0	0	1	0
4	B	755	0	0	2	0
4	C	58	0	0	0	0
All	All	14015	0	12321	52	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 2.

All (52) 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:100:GLN:HG3	1:A:151:PHE:CE1	2.22	0.75
1:A:338:GLU:OE1	1:A:338:GLU:N	2.31	0.64
1:C:554:VAL:HB	1:C:574:VAL:HG12	1.80	0.63
1:C:446:LEU:HD11	1:C:450:ARG:HE	1.64	0.63
1:C:519:ARG:HG2	1:C:520:ILE:H	1.64	0.62
1:A:137:CYS:HB3	1:A:191:SER:HB3	1.86	0.57
1:A:367:ARG:NE	1:A:599:GLU:OE2	2.35	0.56
1:A:100:GLN:NE2	1:A:135:VAL:O	2.39	0.56
1:B:137:CYS:HB3	1:B:191:SER:HB3	1.86	0.56
1:A:329:THR:O	1:A:333:ARG:HG3	2.07	0.54
1:B:463:ARG:NH1	4:B:912:HOH:O	2.40	0.54
1:A:100:GLN:HG3	1:A:151:PHE:CD1	2.43	0.53
1:A:88:HIS:CD2	1:A:123:VAL:HA	2.42	0.53
1:A:693:THR:O	1:B:277:ILE:HA	2.09	0.53
1:C:372:LEU:HD11	1:C:576:TRP:CB	2.39	0.53
1:C:521:GLU:O	1:C:527:ARG:HD3	2.10	0.52
1:A:363:GLU:O	1:A:367:ARG:HG2	2.10	0.51
1:B:347:ARG:O	1:B:351:VAL:HG22	2.12	0.50
1:A:360:VAL:O	1:A:364:VAL:HG23	2.13	0.49
1:A:277:ILE:HA	1:B:693:THR:O	2.12	0.49
1:A:19:ASP:O	1:A:23:ARG:HG3	2.13	0.49
1:A:408:VAL:HG12	1:A:413:ALA:HB1	1.94	0.48
1:C:515:VAL:HA	1:C:555:VAL:O	2.13	0.48
1:A:136:LEU:HD23	1:A:216:PRO:HB2	1.95	0.47
1:A:367:ARG:HE	1:A:599:GLU:CD	2.22	0.47
1:A:390:THR:HG22	1:A:393:GLY:H	1.79	0.47
1:A:218:GLU:O	1:A:222:ARG:HG3	2.15	0.47
1:A:148:ASP:HB3	1:A:559:SER:HB2	1.98	0.46
1:B:108:ASP:OD2	1:B:367:ARG:NH2	2.49	0.46
1:A:234:SER:HA	1:A:239:PRO:HA	1.98	0.45
1:C:413:ALA:HA	1:C:515:VAL:HG11	1.98	0.45
1:B:60:GLU:HG3	4:B:1370:HOH:O	2.15	0.45
1:C:372:LEU:N	1:C:372:LEU:HD12	2.31	0.45
1:B:257:TYR:CZ	1:B:259:GLY:HA3	2.51	0.44
1:B:123:VAL:HG13	1:B:128:VAL:HB	1.98	0.44
1:B:187:PHE:O	1:B:240:VAL:HG11	2.17	0.44
1:B:263:THR:O	1:B:297:MET:HE3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:667:ARG:NH1	1:B:721:GLU:OE2	2.50	0.43
1:A:18:GLU:OE2	4:A:901:HOH:O	2.21	0.43
1:B:234:SER:HA	1:B:239:PRO:HA	2.01	0.43
1:A:119:THR:O	1:A:123:VAL:HG23	2.19	0.43
1:A:263:THR:HB	1:A:267:ASN:HB2	2.00	0.42
1:A:53:SER:HB3	1:A:295:MET:HE2	2.00	0.42
1:A:745:LEU:O	1:A:758:ARG:HA	2.18	0.42
1:C:409:VAL:HA	1:C:462:ALA:O	2.20	0.42
1:C:515:VAL:HB	1:C:555:VAL:HB	2.03	0.41
1:C:372:LEU:HD11	1:C:576:TRP:HB2	2.02	0.41
1:C:373:THR:OG1	1:C:574:VAL:HG22	2.20	0.41
1:A:111:LEU:HA	1:A:114:GLN:HE21	1.86	0.41
1:A:387:ALA:HA	1:A:396:LEU:HD11	2.03	0.41
1:B:599:GLU:OE1	1:B:707:LYS:NZ	2.50	0.40
1:B:409:VAL:HA	1:B:462:ALA:O	2.21	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	747/768 (97%)	730 (98%)	17 (2%)	0	100	100
1	B	741/768 (96%)	725 (98%)	15 (2%)	1 (0%)	48	45
1	C	162/768 (21%)	153 (94%)	7 (4%)	2 (1%)	10	4
All	All	1650/2304 (72%)	1608 (98%)	39 (2%)	3 (0%)	43	40

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	440	GLU
1	C	560	LYS

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Mol	Chain	Res	Type
1	C	359	ALA

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	573/589 (97%)	572 (100%)	1 (0%)	87	88
1	B	569/589 (97%)	569 (100%)	0	100	100
1	C	115/589 (20%)	113 (98%)	2 (2%)	53	53
All	All	1257/1767 (71%)	1254 (100%)	3 (0%)	87	88

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	433	LEU
1	C	498	LEU
1	C	499	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	GLN
1	A	114	GLN
1	A	349	GLN
1	A	417	HIS
1	A	733	HIS
1	B	117	HIS
1	B	186	HIS
1	B	276	HIS
1	B	461	HIS
1	B	623	GLN
1	B	633	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 2 are 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	GOL	A	801	-	5,5,5	0.46	0	5,5,5	1.06	0
2	GOL	B	801	-	5,5,5	0.41	0	5,5,5	1.17	0
2	GOL	B	802	-	5,5,5	0.62	0	5,5,5	0.49	0
2	GOL	A	802	-	5,5,5	0.77	0	5,5,5	0.97	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	GOL	A	801	-	-	2/4/4/4	-
2	GOL	B	801	-	-	3/4/4/4	-
2	GOL	B	802	-	-	4/4/4/4	-
2	GOL	A	802	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	GOL	C1-C2-C3-O3
2	B	801	GOL	C1-C2-C3-O3
2	B	802	GOL	O1-C1-C2-C3
2	B	802	GOL	C1-C2-C3-O3
2	A	801	GOL	O2-C2-C3-O3
2	B	802	GOL	O1-C1-C2-O2
2	B	801	GOL	O1-C1-C2-O2
2	B	802	GOL	O2-C2-C3-O3
2	B	801	GOL	O2-C2-C3-O3

There are no ring outliers.

No monomer is involved in short contacts.

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

6.1 Protein, DNA and RNA chains

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	751/768 (97%)	0.03	18 (2%) 59 60	23, 31, 49, 82	0
1	B	747/768 (97%)	-0.02	15 (2%) 65 65	23, 31, 44, 70	0
1	C	184/768 (23%)	2.97	122 (66%) 0 0	43, 66, 86, 101	0
All	All	1682/2304 (73%)	0.33	155 (9%) 14 13	23, 32, 69, 101	0

All (155) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	362	LEU	9.0
1	C	419	GLN	8.1
1	C	468	LEU	7.7
1	C	365	ALA	7.3
1	C	416	ASP	7.3
1	C	363	GLU	7.2
1	C	532	LEU	7.1
1	C	578	ALA	7.0
1	B	392	ASP	6.9
1	C	361	ASN	6.6
1	C	443	THR	6.4
1	C	358	ALA	6.2
1	C	522	LEU	6.2
1	C	610	ALA	6.0
1	C	355	ALA	6.0
1	C	585	GLY	6.0
1	C	612	GLN	5.9
1	B	3	THR	5.8
1	C	598	PRO	5.8
1	C	589	ALA	5.7
1	C	558	ALA	5.6
1	B	765	GLY	5.6
1	C	528	SER	5.5

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Mol	Chain	Res	Type	RSRZ
1	C	577	ALA	5.4
1	C	360	VAL	5.4
1	C	595	LEU	5.3
1	C	520	ILE	5.3
1	C	561	PRO	5.2
1	C	370	VAL	5.0
1	C	611	GLY	5.0
1	C	393	GLY	4.9
1	B	387	ALA	4.9
1	C	609	HIS	4.8
1	C	386	ARG	4.8
1	C	601	ARG	4.8
1	C	576	TRP	4.7
1	C	563	VAL	4.7
1	C	371	LEU	4.7
1	C	562	LEU	4.6
1	C	613	GLN	4.5
1	C	396	LEU	4.5
1	C	517	GLY	4.4
1	C	529	THR	4.4
1	C	467	ILE	4.4
1	C	516	VAL	4.3
1	C	530	ALA	4.3
1	C	464	GLY	4.2
1	B	473	ASP	4.2
1	C	608	ARG	4.2
1	C	356	GLU	4.2
1	C	369	LEU	4.1
1	C	596	ILE	4.1
1	C	557	VAL	4.1
1	C	414	ASP	4.0
1	C	515	VAL	4.0
1	C	587	ALA	4.0
1	C	359	ALA	3.9
1	A	3	THR	3.9
1	C	462	ALA	3.9
1	C	531	THR	3.9
1	C	599	GLU	3.9
1	C	527	ARG	3.8
1	C	535	VAL	3.8
1	C	574	VAL	3.8
1	C	413	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
1	C	600	GLY	3.7
1	C	445	VAL	3.7
1	A	11	VAL	3.7
1	C	368	SER	3.6
1	B	440	GLU	3.6
1	A	392	ASP	3.6
1	C	461	HIS	3.6
1	C	447	ASP	3.6
1	C	366	ARG	3.5
1	C	367	ARG	3.5
1	C	418	THR	3.4
1	A	473	ASP	3.4
1	C	519	ARG	3.4
1	A	390	THR	3.4
1	C	465	ALA	3.4
1	C	597	GLU	3.4
1	C	534	LEU	3.4
1	C	536	GLY	3.3
1	C	417	HIS	3.3
1	C	452	LEU	3.3
1	A	472	PRO	3.3
1	C	451	ALA	3.3
1	C	497	ALA	3.3
1	C	498	LEU	3.2
1	C	586	GLN	3.1
1	A	389	GLY	3.1
1	C	448	GLY	3.1
1	C	373	THR	3.1
1	C	460	THR	3.1
1	C	458	ALA	3.1
1	C	453	ALA	3.0
1	C	446	LEU	2.9
1	B	494	PRO	2.9
1	C	372	LEU	2.9
1	A	391	PRO	2.9
1	A	393	GLY	2.9
1	A	347	ARG	2.9
1	C	449	PHE	2.9
1	C	500	ALA	2.9
1	C	591	LEU	2.8
1	A	658	THR	2.8
1	C	499	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	C	559	SER	2.8
1	B	493	ALA	2.8
1	C	444	THR	2.8
1	C	385	ASP	2.8
1	A	494	PRO	2.8
1	B	393	GLY	2.7
1	B	356	GLU	2.7
1	C	521	GLU	2.7
1	B	472	PRO	2.6
1	C	459	VAL	2.6
1	C	513	VAL	2.6
1	C	501	GLU	2.6
1	C	514	ALA	2.6
1	C	383	GLY	2.6
1	C	411	PRO	2.6
1	C	590	GLU	2.6
1	C	502	ALA	2.6
1	C	466	ASP	2.5
1	A	14	ALA	2.5
1	C	397	ALA	2.5
1	C	556	VAL	2.5
1	C	395	ALA	2.5
1	C	378	LEU	2.5
1	C	537	GLY	2.5
1	A	493	ALA	2.4
1	A	659	GLU	2.4
1	C	408	VAL	2.4
1	C	554	VAL	2.4
1	C	560	LYS	2.4
1	C	504	ALA	2.4
1	A	765	GLY	2.3
1	A	399	ALA	2.3
1	C	450	ARG	2.3
1	C	394	ARG	2.3
1	C	495	ASP	2.3
1	C	410	GLY	2.3
1	C	456	GLY	2.2
1	B	455	GLU	2.2
1	A	715	SER	2.2
1	C	518	ASP	2.2
1	B	347	ARG	2.2
1	B	352	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	409	VAL	2.2
1	C	575	VAL	2.2
1	C	503	VAL	2.1
1	C	555	VAL	2.1
1	C	505	ALA	2.1
1	B	456	GLY	2.0

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 oligosaccharides in this entry.

6.4 Ligands [i](#)

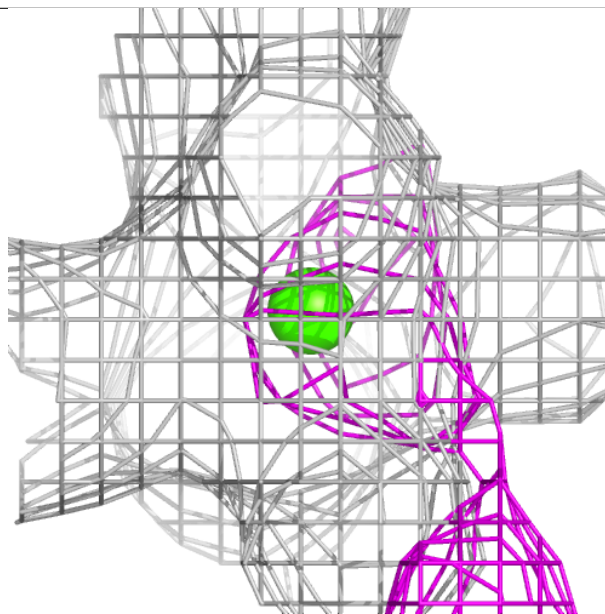
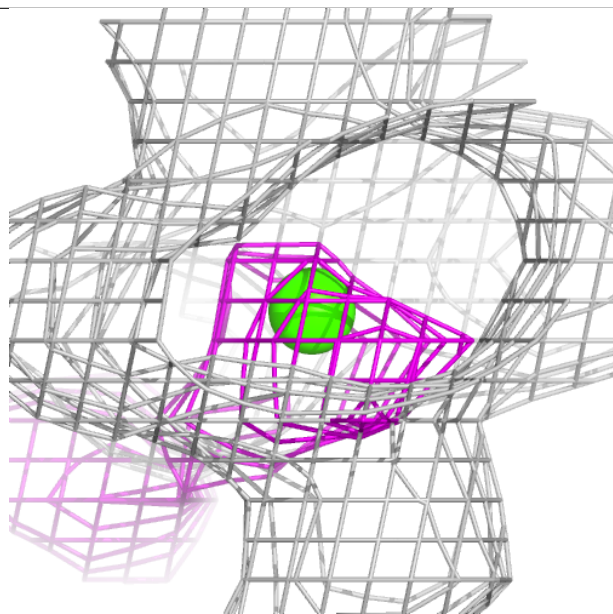
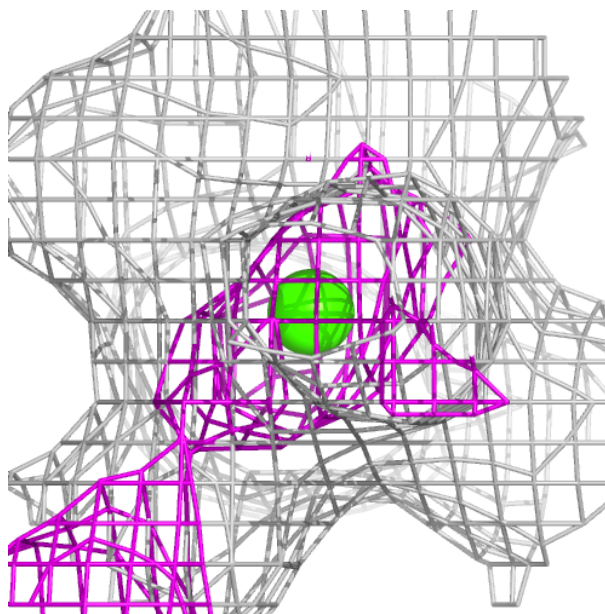
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GOL	B	801	6/6	0.72	0.19	30,35,37,42	0
2	GOL	A	801	6/6	0.73	0.20	32,33,37,40	0
2	GOL	B	802	6/6	0.79	0.23	38,40,41,43	0
2	GOL	A	802	6/6	0.81	0.19	35,38,43,54	0
3	CA	A	803	1/1	0.97	0.11	44,44,44,44	0
3	CA	B	803	1/1	0.99	0.07	44,44,44,44	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.

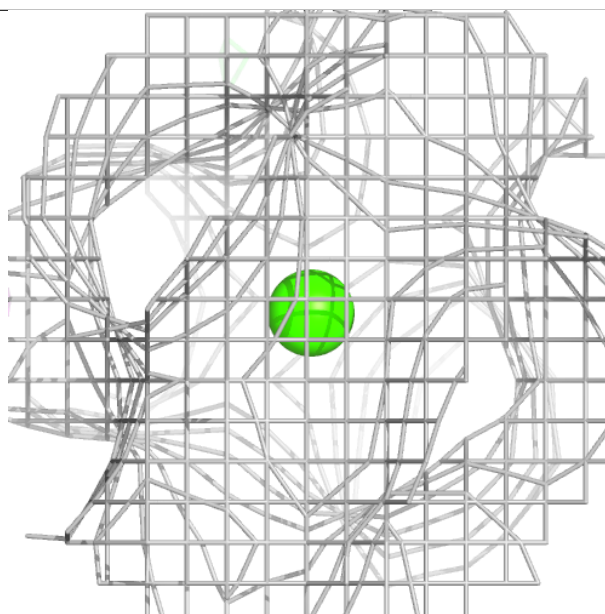
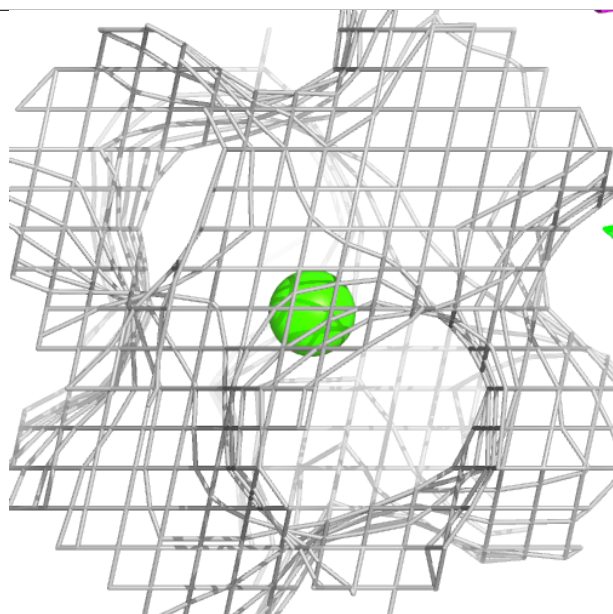
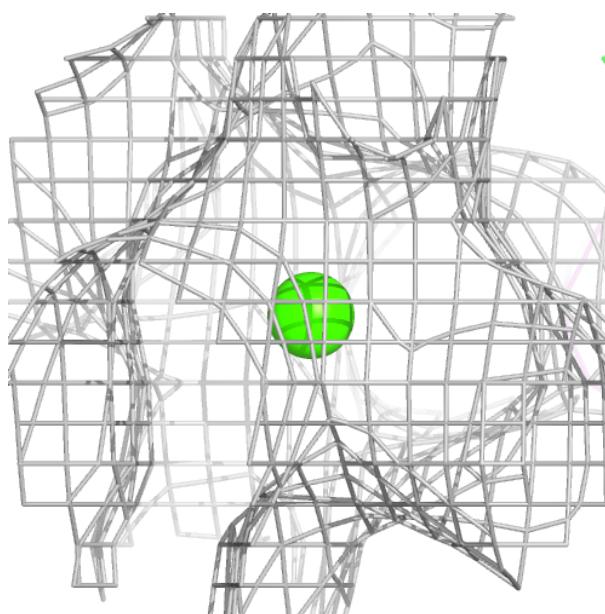
Electron density around CA A 803:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CA B 803:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.