



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 01:00 PM UTC

PDB ID : 6B6L / pdb_00006b6l
Title : The crystal structure of glycosyl hydrolase family 2 (GH2) member from *Bacteroides cellulosilyticus* DSM 14838
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Deposited on : 2017-10-02
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
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

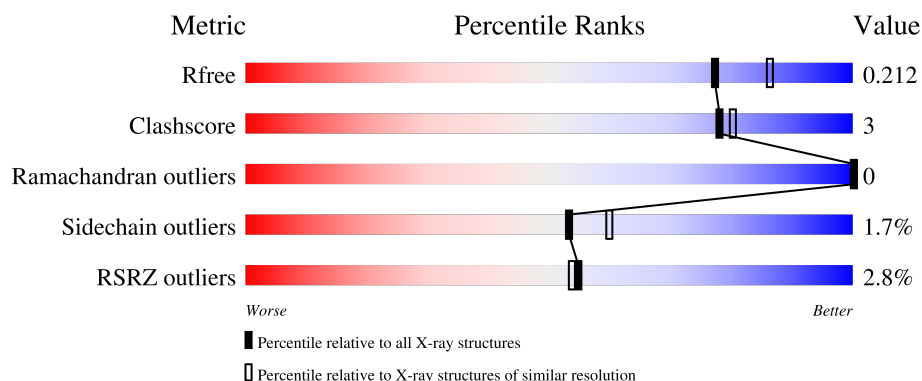
1 Overall quality at a glance

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	776	3% 86% 8% 6%
1	B	776	2% 86% 7% 6%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 12209 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 Glycosyl hydrolase family 2, sugar binding domain protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	727	Total	C	N	O	S	Se	0	3	0
			5725	3624	987	1095	9	10			
1	B	726	Total	C	N	O	S	Se	0	0	0
			5736	3637	981	1101	9	8			

There are 6 discrepancies between the modelled and reference sequences:

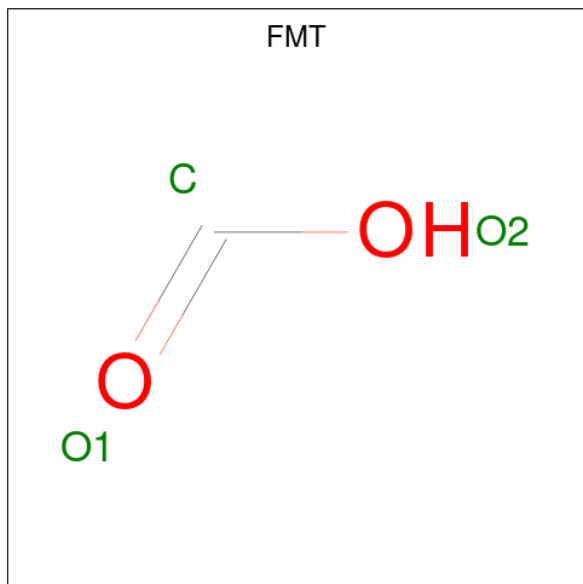
Chain	Residue	Modelled	Actual	Comment	Reference
A	22	SER	-	expression tag	UNP E2N721
A	23	ASN	ASP	conflict	UNP E2N721
A	24	ALA	SER	conflict	UNP E2N721
B	22	SER	-	expression tag	UNP E2N721
B	23	ASN	ASP	conflict	UNP E2N721
B	24	ALA	SER	conflict	UNP E2N721

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



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is FORMIC ACID (CCD ID: FMT) (formula: CH₂O₂).



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

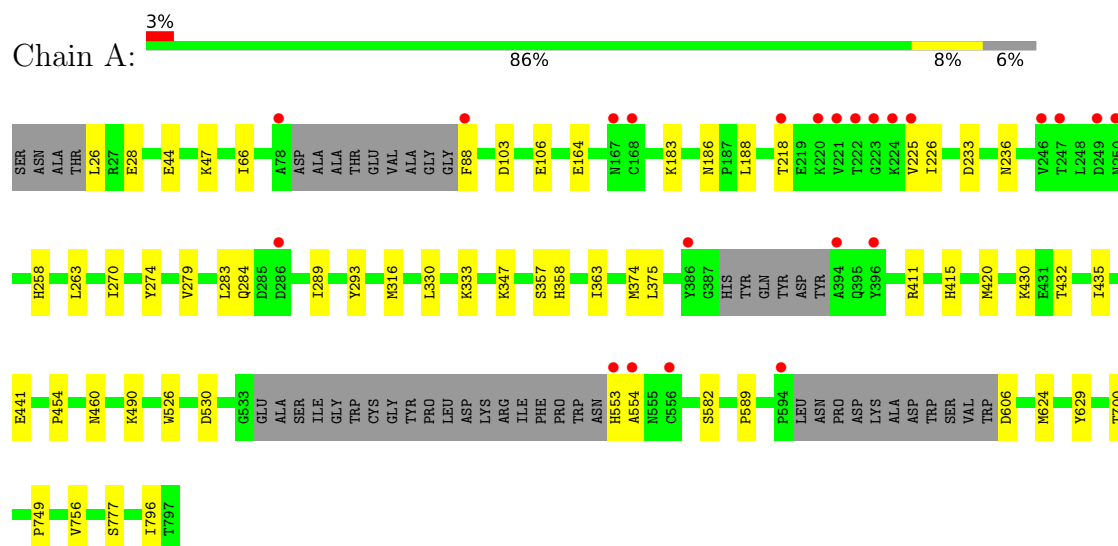
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	409	Total	O	0	0
			409	409		
4	B	318	Total	O	0	0
			318	318		

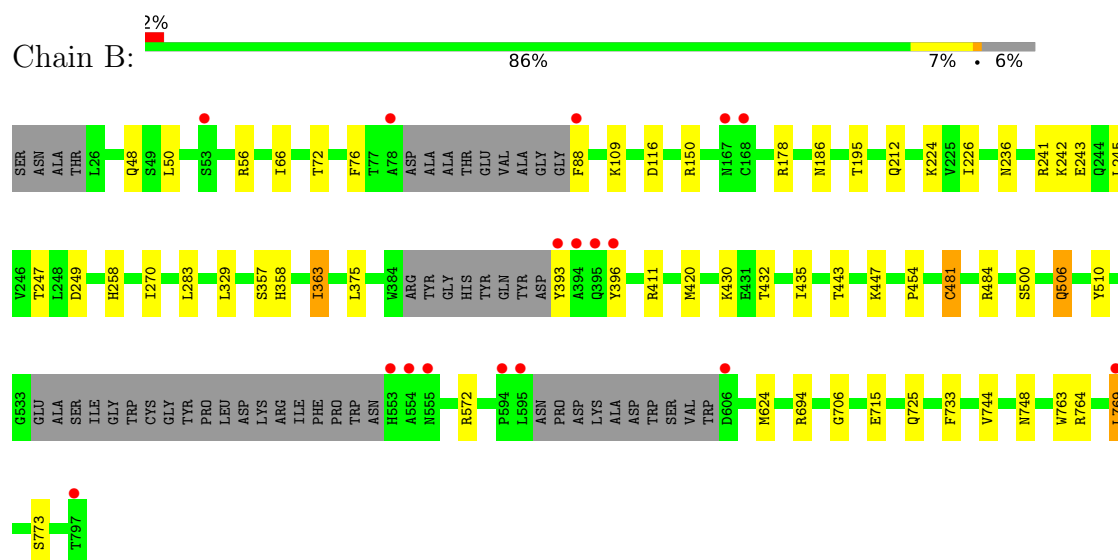
3 Residue-property plots [i](#)

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: Glycosyl hydrolase family 2, sugar binding domain protein



- Molecule 1: Glycosyl hydrolase family 2, sugar binding domain protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	57.53Å 227.13Å 66.90Å 90.00° 108.83° 90.00°	Depositor
Resolution (Å)	34.88 – 2.00 34.88 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.6 (34.88-2.00) 97.9 (34.88-2.00)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.79 (at 1.98Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.163 , 0.208 (Not available) , 0.212	Depositor DCC
R_{free} test set	5320 reflections (4.78%)	wwPDB-VP
Wilson B-factor (Å ²)	24.2	Xtriage
Anisotropy	0.014	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.1	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	0.96	EDS
Total number of atoms	12209	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.33% 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: EDO, FMT, CSD

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	0.66	0/5828	0.75	2/7903 (0.0%)
1	B	0.58	0/5841	0.70	0/7919
All	All	0.62	0/11669	0.73	2/15822 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	526	TRP	CA-C-N	5.05	130.80	121.70
1	A	526	TRP	C-N-CA	5.05	130.80	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 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	5725	0	5519	31	0
1	B	5736	0	5549	33	0
2	A	8	0	12	0	0
2	B	4	0	6	1	0
3	A	6	0	2	0	0
3	B	3	0	1	0	0
4	A	409	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	318	0	0	0	0
All	All	12209	0	11089	64	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 (64) 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:B:744:VAL:HG12	1:B:769:LEU:HD22	1.68	0.75
1:A:420:MSE:HG2	1:A:454:PRO:HG2	1.69	0.73
1:A:28:GLU:HG2	1:A:183:LYS:HG2	1.73	0.70
1:A:363:ILE:HD11	1:A:411:ARG:HD2	1.76	0.67
1:B:481:CSD:OD1	1:B:484:ARG:HD3	1.96	0.66
1:A:270:ILE:HD11	1:A:375:LEU:HG	1.82	0.61
1:B:270:ILE:HD11	1:B:375:LEU:HG	1.81	0.61
1:B:363:ILE:HD11	1:B:411:ARG:HD2	1.81	0.61
1:A:589:PRO:HD3	1:A:624:MSE:HE1	1.83	0.60
1:B:744:VAL:HG12	1:B:769:LEU:CD2	2.30	0.60
1:A:225:VAL:HG12	1:A:284:GLN:HG3	1.85	0.59
1:A:186:ASN:ND2	1:A:289:ILE:O	2.36	0.58
1:B:48:GLN:OE1	1:B:150:ARG:NH2	2.28	0.57
1:B:357:SER:HB2	1:B:358:HIS:CE1	2.39	0.56
1:B:420:MSE:HG2	1:B:454:PRO:HG2	1.88	0.56
1:A:415:HIS:NE2	4:A:903:HOH:O	2.33	0.56
1:A:756:VAL:O	1:A:756:VAL:HG12	2.06	0.55
1:B:443:THR:O	1:B:447:LYS:HG2	2.07	0.54
1:B:363:ILE:CD1	1:B:411:ARG:HD2	2.38	0.54
1:A:553:HIS:CE1	1:A:749:PRO:HA	2.42	0.54
1:B:733:PHE:CE2	1:B:769:LEU:HD21	2.42	0.53
1:A:606:ASP:N	1:A:606:ASP:OD1	2.42	0.51
1:B:706:GLY:HA2	1:B:773:SER:O	2.10	0.51
1:A:88:PHE:HA	4:A:1274:HOH:O	2.10	0.51
1:A:347:LYS:HG2	1:A:374:MSE:HE2	1.92	0.50
1:A:357:SER:HB2	1:A:358:HIS:CE1	2.46	0.50
1:A:700:THR:HA	1:A:796:ILE:HD12	1.94	0.49
1:A:330:LEU:O	1:A:333:LYS:HE2	2.13	0.48
1:A:432:THR:OG1	1:A:435:ILE:HG12	2.14	0.48
1:B:224:LYS:HE2	1:B:247:THR:HG22	1.95	0.48
1:B:624:MSE:HE3	1:B:624:MSE:HB3	1.87	0.47
1:B:725:GLN:O	1:B:764:ARG:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:572:ARG:HB3	2:B:801:EDO:H22	1.96	0.47
1:B:432:THR:OG1	1:B:435:ILE:HG12	2.15	0.46
1:B:241:ARG:NH1	1:B:243:GLU:OE1	2.49	0.46
1:A:233:ASP:HB2	1:A:274:TYR:OH	2.15	0.45
1:A:44:GLU:HB3	1:A:47:LYS:HG3	1.98	0.45
1:B:393:TYR:HA	1:B:396:TYR:HD2	1.81	0.45
1:B:694:ARG:NH1	1:B:715:GLU:OE1	2.50	0.45
1:B:109:LYS:NZ	1:B:186:ASN:OD1	2.50	0.45
1:A:188:LEU:HD21	1:A:225:VAL:HG11	1.99	0.45
1:A:430:LYS:HE3	1:A:460:ASN:O	2.17	0.45
1:B:66:ILE:HD12	1:B:66:ILE:HA	1.85	0.45
1:A:357:SER:HA	1:A:358:HIS:HA	1.86	0.44
1:B:226:ILE:HD13	1:B:245:LEU:HA	2.00	0.44
1:B:116:ASP:HB3	1:B:178:ARG:HB3	1.99	0.43
1:A:226:ILE:HB	1:A:283:LEU:HB2	2.00	0.43
1:A:103:ASP:HB2	1:A:106:GLU:HG2	2.01	0.43
1:B:195:THR:HA	1:B:212:GLN:O	2.20	0.42
1:A:26:LEU:HD23	1:A:26:LEU:HA	1.82	0.42
1:B:283:LEU:HD12	1:B:283:LEU:N	2.34	0.42
1:B:76:PHE:HB3	1:B:88:PHE:CD1	2.55	0.41
1:B:116:ASP:OD1	1:B:363:ILE:HD13	2.20	0.41
1:A:582:SER:HA	1:A:629:TYR:O	2.20	0.41
1:A:66:ILE:HD12	1:A:66:ILE:HA	1.92	0.41
1:A:263:LEU:HD12	1:A:263:LEU:HA	1.86	0.41
1:A:279:VAL:HG22	1:A:293:TYR:CD2	2.55	0.41
1:A:756:VAL:O	1:A:756:VAL:CG1	2.69	0.41
1:B:329:LEU:C	1:B:329:LEU:HD12	2.46	0.41
1:B:506:GLN:HB3	1:B:510:TYR:CD1	2.57	0.41
1:B:748:ASN:HB2	1:B:763:TRP:CG	2.56	0.41
1:B:224:LYS:CD	1:B:247:THR:HG22	2.51	0.40
1:B:733:PHE:CE1	1:B:769:LEU:HG	2.56	0.40
1:A:553:HIS:HB2	1:A:554:ALA:H	1.75	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	718/776 (92%)	704 (98%)	14 (2%)	0	100	100
1	B	714/776 (92%)	698 (98%)	16 (2%)	0	100	100
All	All	1432/1552 (92%)	1402 (98%)	30 (2%)	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	604/646 (94%)	595 (98%)	9 (2%)	57	64
1	B	610/646 (94%)	598 (98%)	12 (2%)	48	54
All	All	1214/1292 (94%)	1193 (98%)	21 (2%)	53	60

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	164	GLU
1	A	218	THR
1	A	236	ASN
1	A	258	HIS
1	A	316	MSE
1	A	441	GLU
1	A	490	LYS
1	A	530	ASP
1	A	777	SER
1	B	50	LEU
1	B	56	ARG
1	B	72	THR
1	B	236	ASN
1	B	242	LYS

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Mol	Chain	Res	Type
1	B	249	ASP
1	B	258	HIS
1	B	363	ILE
1	B	430	LYS
1	B	500	SER
1	B	506	GLN
1	B	769	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	189	HIS
1	A	583	HIS
1	B	133	ASN
1	B	167	ASN
1	B	236	ASN
1	B	244	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

4 non-standard protein/DNA/RNA residues 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	CSD	B	481	1	4,7,8	1.26	0	1,8,10	4.52	1 (100%)
1	CSD	A	110	1	4,7,8	0.98	0	1,8,10	0.27	0
1	CSD	A	481	1	4,7,8	0.94	0	1,8,10	1.21	0
1	CSD	B	110	1	4,7,8	0.98	0	1,8,10	0.20	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
1	CSD	B	481	1	-	2/2/6/8	-
1	CSD	A	110	1	-	0/2/6/8	-
1	CSD	A	481	1	-	1/2/6/8	-
1	CSD	B	110	1	-	0/2/6/8	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	481	CSD	OD1-SG-CB	-4.52	97.27	105.60

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	481	CSD	N-CA-CB-SG
1	B	481	CSD	N-CA-CB-SG
1	B	481	CSD	CA-CB-SG-OD1

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	481	CSD	1	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

6 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	EDO	A	802	-	3,3,3	0.71	0	2,2,2	0.53	0
2	EDO	B	801	-	3,3,3	0.70	0	2,2,2	0.56	0
3	FMT	A	803	-	2,2,2	0.58	0	1,1,1	0.02	0
2	EDO	A	801	-	3,3,3	0.55	0	2,2,2	0.77	0
3	FMT	B	802	-	2,2,2	0.42	0	1,1,1	0.38	0
3	FMT	A	804	-	2,2,2	0.57	0	1,1,1	0.19	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	A	802	-	-	0/1/1/1	-
2	EDO	A	801	-	-	0/1/1/1	-
2	EDO	B	801	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	801	EDO	1	0

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	716/776 (92%)	-0.34	23 (3%)	50 49	8, 27, 56, 95	2 (0%)
1	B	715/776 (92%)	-0.19	17 (2%)	59 59	18, 32, 58, 107	0
All	All	1431/1552 (92%)	-0.27	40 (2%)	55 54	8, 30, 58, 107	2 (0%)

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	554	ALA	6.9
1	B	553	HIS	5.9
1	A	394	ALA	5.8
1	A	554	ALA	5.1
1	A	250	ASN	4.8
1	B	393	TYR	4.6
1	B	394	ALA	4.5
1	B	78	ALA	4.2
1	B	595	LEU	4.2
1	A	553	HIS	3.8
1	A	249	ASP	3.7
1	B	396	TYR	3.5
1	B	594	PRO	3.4
1	B	88	PHE	3.3
1	B	769	LEU	3.2
1	A	78	ALA	3.1
1	A	594	PRO	3.0
1	A	224	LYS	2.9
1	A	220	LYS	2.8
1	A	218	THR	2.8
1	B	797	THR	2.8
1	A	396	TYR	2.7
1	B	167	ASN	2.7
1	A	247	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	606	ASP	2.6
1	A	221	VAL	2.6
1	A	225	VAL	2.6
1	A	556	CYS	2.6
1	B	555	ASN	2.6
1	A	386	TYR	2.5
1	A	286	ASP	2.4
1	A	223	GLY	2.4
1	A	167	ASN	2.3
1	A	168	CYS	2.2
1	A	246	VAL	2.1
1	B	53	SER	2.1
1	A	222	THR	2.1
1	B	168	CYS	2.1
1	B	395	GLN	2.0
1	A	88	PHE	2.0

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	CSD	B	481	8/9	0.91	0.12	25,29,55,70	0
1	CSD	A	481	8/9	0.94	0.10	23,26,49,63	0
1	CSD	A	110	8/9	0.95	0.08	36,43,65,67	0
1	CSD	B	110	8/9	0.97	0.06	35,41,54,55	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
3	FMT	A	804	3/3	0.86	0.12	49,49,53,54	0
2	EDO	A	801	4/4	0.89	0.11	35,36,39,40	0
3	FMT	A	803	3/3	0.95	0.07	30,30,32,33	0
3	FMT	B	802	3/3	0.96	0.07	25,25,37,43	0
2	EDO	B	801	4/4	0.97	0.08	20,21,22,29	0
2	EDO	A	802	4/4	0.99	0.04	16,18,22,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.