



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:47 PM UTC

PDB ID : 6EXB / pdb_00006exb
Title : Crystal structure of DotM cytoplasmic domain (residues 153-380), native form
Authors : Meir, A.; Waksman, G.
Deposited on : 2017-11-07
Resolution : 1.84 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

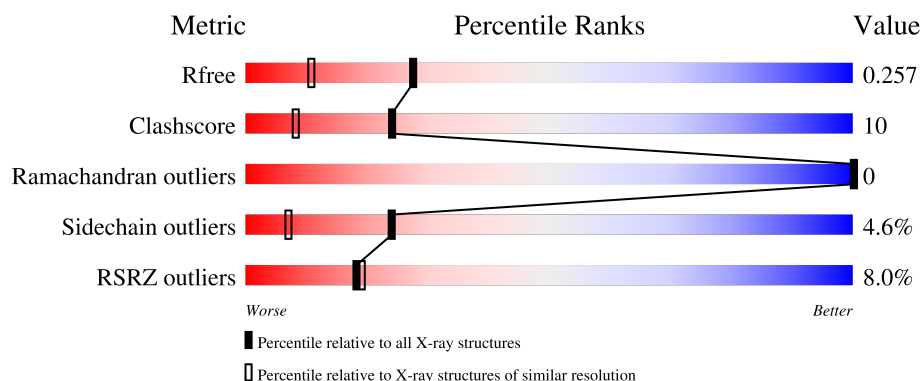
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.84 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	1296 (1.84-1.84)
Clashscore	190562	1329 (1.84-1.84)
Ramachandran outliers	187476	1318 (1.84-1.84)
Sidechain outliers	187428	1318 (1.84-1.84)
RSRZ outliers	180081	1296 (1.84-1.84)

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	235	5% 74% 14% • 9%
1	B	235	10% 74% 17% • 5%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3771 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 IcmP (DotM).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	213	Total	C	N	O	S	0	2	0
			1739	1106	310	310	13			
1	B	224	Total	C	N	O	S	0	0	0
			1794	1142	317	322	13			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	146	GLY	-	expression tag	UNP Q5ZYC7
A	147	PRO	-	expression tag	UNP Q5ZYC7
A	148	SER	-	expression tag	UNP Q5ZYC7
A	149	GLY	-	expression tag	UNP Q5ZYC7
A	150	GLY	-	expression tag	UNP Q5ZYC7
A	151	GLY	-	expression tag	UNP Q5ZYC7
A	152	ALA	-	expression tag	UNP Q5ZYC7
B	146	GLY	-	expression tag	UNP Q5ZYC7
B	147	PRO	-	expression tag	UNP Q5ZYC7
B	148	SER	-	expression tag	UNP Q5ZYC7
B	149	GLY	-	expression tag	UNP Q5ZYC7
B	150	GLY	-	expression tag	UNP Q5ZYC7
B	151	GLY	-	expression tag	UNP Q5ZYC7
B	152	ALA	-	expression tag	UNP Q5ZYC7

- 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	B	1	Total	C	O	0	0
			6	3	3		

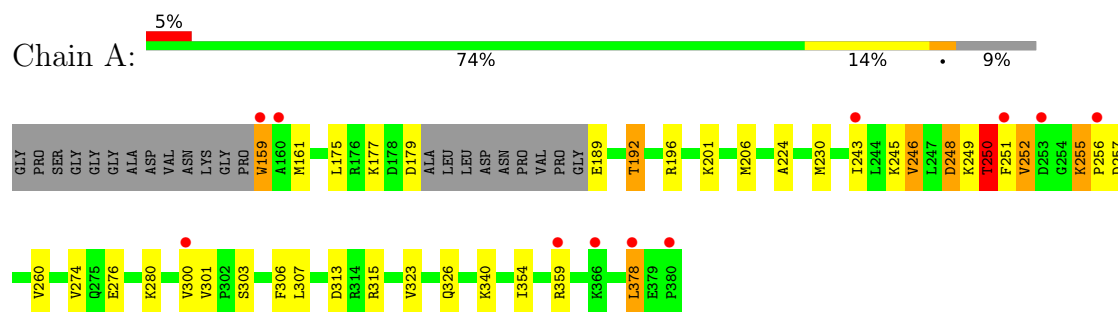
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	127	Total	O	0	0
			127	127		
3	B	99	Total	O	0	0
			99	99		

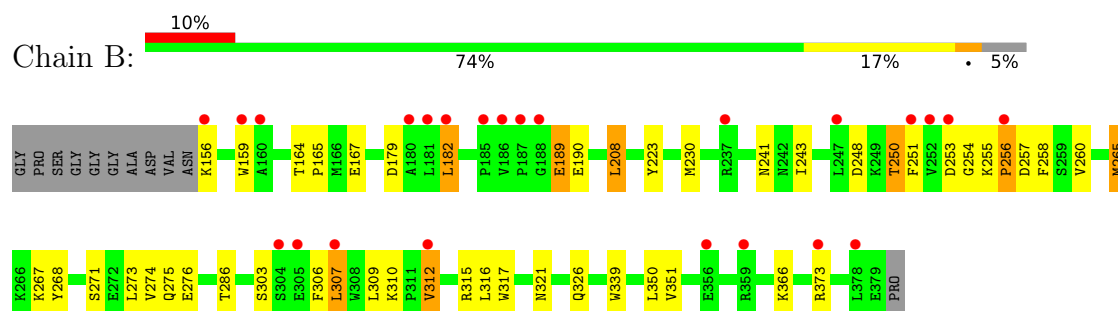
3 Residue-property plots

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: IcmP (DotM)



• Molecule 1: IcmP (DotM)



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	118.52Å 118.52Å 66.33Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	102.70 – 1.84 102.64 – 1.84	Depositor EDS
% Data completeness (in resolution range)	99.8 (102.70-1.84) 99.9 (102.64-1.84)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 1.84Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.202 , 0.250 0.209 , 0.257	Depositor DCC
R_{free} test set	2246 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å ²)	33.9	Xtriage
Anisotropy	0.113	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 40.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.045 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3771	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.95% 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: GOL

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	1.27	6/1776 (0.3%)	1.21	6/2396 (0.3%)
1	B	1.28	5/1834 (0.3%)	1.24	9/2480 (0.4%)
All	All	1.28	11/3610 (0.3%)	1.22	15/4876 (0.3%)

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	306	PHE	CA-CB	7.13	1.60	1.53
1	A	248	ASP	N-CA	6.09	1.53	1.46
1	B	208	LEU	N-CA	5.93	1.53	1.46
1	B	309	LEU	C-O	5.82	1.31	1.24
1	A	300	VAL	CA-C	5.48	1.59	1.52
1	A	246	VAL	CA-C	-5.35	1.45	1.52
1	B	316	LEU	CA-C	-5.31	1.45	1.52
1	B	248	ASP	N-CA	5.31	1.52	1.46
1	B	351	VAL	CA-C	5.21	1.58	1.52
1	A	323	VAL	CA-C	5.21	1.58	1.52
1	A	250	THR	CA-C	-5.20	1.45	1.52

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	300	VAL	N-CA-C	8.22	119.02	110.72
1	B	312	VAL	N-CA-C	7.66	118.46	110.72
1	A	252	VAL	CB-CA-C	-6.60	103.44	111.88
1	B	243	ILE	N-CA-C	-6.54	104.39	110.53
1	B	189	GLU	N-CA-C	6.44	120.34	111.71
1	B	256	PRO	N-CA-C	6.04	120.70	111.11
1	B	265	MET	N-CA-C	-5.91	104.92	111.36
1	B	255	LYS	CA-C-N	5.75	125.75	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	255	LYS	C-N-CA	5.75	125.75	119.89
1	B	267	LYS	N-CA-C	5.57	117.43	111.36
1	A	224	ALA	N-CA-C	5.42	116.87	111.07
1	A	250	THR	N-CA-CB	5.24	118.41	110.28
1	A	359	ARG	N-CA-C	-5.15	105.75	111.36
1	B	241	ASN	N-CA-C	5.06	116.80	111.28
1	A	243	ILE	CB-CA-C	-5.01	105.56	111.97

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	1739	0	1752	42	0
1	B	1794	0	1808	36	2
2	A	6	0	8	3	0
2	B	6	0	8	0	0
3	A	127	0	0	12	1
3	B	99	0	0	5	0
All	All	3771	0	3576	71	2

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 10.

All (71) 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:246:VAL:O	1:A:250:THR:HG22	1.60	0.99
1:A:255:LYS:HD2	1:A:256:PRO:HD2	1.45	0.96
1:A:251:PHE:CE2	1:B:307:LEU:HD11	2.01	0.95
1:B:253:ASP:OD1	1:B:254:GLY:N	2.00	0.95
1:A:255:LYS:HD2	1:A:256:PRO:CD	1.97	0.93
1:A:251:PHE:CE2	1:B:307:LEU:CD1	2.60	0.84
1:B:250:THR:HB	1:B:256:PRO:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ASP:O	1:B:260:VAL:HG12	1.81	0.80
1:B:315:ARG:HD3	3:B:571:HOH:O	1.82	0.77
1:A:251:PHE:CD2	1:B:307:LEU:HD11	2.22	0.75
1:A:246:VAL:O	1:A:250:THR:CG2	2.34	0.74
1:A:250:THR:OG1	1:A:256:PRO:HA	1.93	0.68
1:A:251:PHE:HE2	1:B:307:LEU:CD1	2.05	0.67
1:A:326:GLN:H	1:A:326:GLN:CD	2.05	0.64
1:A:250:THR:HB	3:A:597:HOH:O	1.99	0.63
1:A:189:GLU:O	1:A:192:THR:HB	1.99	0.63
1:A:257:ASP:O	1:A:260:VAL:HG12	1.99	0.62
1:A:255:LYS:CD	1:A:256:PRO:HD2	2.24	0.62
1:B:326:GLN:NE2	3:B:501:HOH:O	2.19	0.61
1:A:252:VAL:CG2	3:A:567:HOH:O	2.49	0.60
1:A:245:LYS:O	1:A:249:LYS:HE2	2.00	0.60
1:A:313:ASP:OD2	2:A:401:GOL:H12	2.04	0.58
1:A:161:MET:HG3	1:B:253:ASP:O	2.04	0.57
1:A:245:LYS:O	1:A:249:LYS:CE	2.53	0.56
1:B:303:SER:CB	1:B:321:ASN:HD21	2.18	0.55
1:A:252:VAL:HG22	3:A:567:HOH:O	2.05	0.55
1:B:230:MET:HG2	1:B:274:VAL:HG21	1.88	0.55
1:A:177:LYS:HG3	1:A:378:LEU:HB3	1.88	0.55
1:B:164:THR:HG23	1:B:167:GLU:H	1.70	0.55
1:B:189:GLU:OE2	1:B:366:LYS:HD3	2.07	0.55
1:A:315:ARG:HH21	2:A:401:GOL:H32	1.71	0.54
1:B:273:LEU:O	1:B:276:GLU:HG2	2.08	0.54
3:A:509:HOH:O	1:B:159:TRP:HH2	1.89	0.54
1:A:250:THR:HG22	3:A:597:HOH:O	2.09	0.52
3:A:509:HOH:O	1:B:159:TRP:CH2	2.54	0.52
1:A:250:THR:OG1	1:A:255:LYS:O	2.27	0.52
1:A:307:LEU:HB2	1:B:307:LEU:HG	1.92	0.52
1:A:280:LYS:HE3	3:A:534:HOH:O	2.10	0.51
1:B:230:MET:CG	1:B:274:VAL:HG21	2.40	0.51
1:B:164:THR:HG22	1:B:167:GLU:CG	2.41	0.51
1:B:350:LEU:HD12	1:B:350:LEU:N	2.27	0.50
1:B:258:PHE:N	3:B:503:HOH:O	2.40	0.49
1:A:230:MET:HG2	1:A:274:VAL:HG21	1.94	0.49
1:A:248:ASP:HB2	1:A:249:LYS:HE2	1.95	0.49
1:A:245:LYS:HG2	1:A:249:LYS:HE3	1.96	0.48
1:A:315:ARG:HH21	2:A:401:GOL:C3	2.27	0.47
1:A:250:THR:CB	3:A:597:HOH:O	2.58	0.47
1:A:250:THR:CG2	3:A:597:HOH:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:LYS:HD2	3:A:601:HOH:O	2.15	0.46
1:B:268:TYR:O	1:B:271:SER:OG	2.32	0.45
1:A:206:MET:C	1:A:206:MET:SD	2.99	0.45
1:B:164:THR:HG21	3:B:583:HOH:O	2.17	0.45
1:B:179:ASP:HA	1:B:182:LEU:HB2	1.99	0.45
1:B:275:GLN:HG2	3:B:559:HOH:O	2.17	0.44
1:A:161:MET:HG3	1:B:254:GLY:HA2	1.99	0.44
1:A:250:THR:HG21	1:A:257:ASP:H	1.83	0.44
1:B:286:THR:HG22	1:B:339:TRP:HB2	1.99	0.44
1:B:303:SER:HA	1:B:306:PHE:CZ	2.53	0.44
1:A:252:VAL:HG23	3:A:567:HOH:O	2.17	0.42
1:A:201:LYS:HG2	1:A:354:ILE:HD11	2.02	0.42
1:B:164:THR:OG1	1:B:165:PRO:HD2	2.19	0.42
1:B:251:PHE:HD1	1:B:256:PRO:CG	2.32	0.42
1:A:255:LYS:HD2	1:A:256:PRO:N	2.33	0.42
1:A:340[B]:LYS:HB3	1:A:340[B]:LYS:HE2	1.70	0.42
1:B:303:SER:CB	1:B:321:ASN:ND2	2.83	0.42
1:B:310:LYS:HD3	1:B:317:TRP:CD1	2.54	0.41
1:A:159:TRP:N	3:A:509:HOH:O	2.53	0.41
1:B:164:THR:HG22	1:B:167:GLU:CD	2.45	0.41
1:B:223:TYR:CZ	1:B:265:MET:HG2	2.56	0.41
1:B:307:LEU:HA	1:B:307:LEU:HD13	1.88	0.40
1:A:175:LEU:O	1:A:196:ARG:NH1	2.55	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ASP:OD2	1:B:326:GLN:OE1[6_664]	2.03	0.17
1:B:350:LEU:CD1	3:A:516:HOH:O[1_556]	2.16	0.04

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	211/235 (90%)	204 (97%)	7 (3%)	0	100	100
1	B	222/235 (94%)	216 (97%)	6 (3%)	0	100	100
All	All	433/470 (92%)	420 (97%)	13 (3%)	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	183/195 (94%)	174 (95%)	9 (5%)	22	6
1	B	189/195 (97%)	181 (96%)	8 (4%)	26	8
All	All	372/390 (95%)	355 (95%)	17 (5%)	24	7

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	159	TRP
1	A	179	ASP
1	A	192	THR
1	A	250	THR
1	A	255	LYS
1	A	276	GLU
1	A	301	VAL
1	A	303	SER
1	A	378	LEU
1	B	156	LYS
1	B	182	LEU
1	B	190	GLU
1	B	208	LEU
1	B	250	THR
1	B	307	LEU
1	B	312	VAL

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Mol	Chain	Res	Type
1	B	373	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	234	ASN
1	B	321	ASN

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](#)

2 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	GOL	A	401	-	5,5,5	0.71	0	5,5,5	0.94	0
2	GOL	B	401	-	5,5,5	0.34	0	5,5,5	1.30	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	401	-	-	4/4/4/4	-
2	GOL	B	401	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	GOL	O1-C1-C2-C3
2	B	401	GOL	O1-C1-C2-C3
2	A	401	GOL	C1-C2-C3-O3
2	A	401	GOL	O1-C1-C2-O2
2	B	401	GOL	O1-C1-C2-O2
2	A	401	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	GOL	3	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	213/235 (90%)	0.42	11 (5%)	33 34	15, 38, 69, 98	2 (0%)
1	B	224/235 (95%)	0.72	24 (10%)	11 11	24, 44, 84, 119	0
All	All	437/470 (92%)	0.58	35 (8%)	18 19	15, 41, 80, 119	2 (0%)

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	159	TRP	5.9
1	B	186	VAL	5.0
1	B	182	LEU	4.8
1	B	251	PHE	4.3
1	B	159	TRP	4.2
1	B	307	LEU	3.9
1	A	380	PRO	3.7
1	A	160	ALA	3.7
1	B	160	ALA	3.4
1	A	256	PRO	3.4
1	A	251	PHE	3.2
1	B	256	PRO	3.0
1	B	253	ASP	2.9
1	B	180	ALA	2.9
1	B	187	PRO	2.9
1	B	188	GLY	2.7
1	A	300	VAL	2.7
1	A	378	LEU	2.6
1	A	253	ASP	2.5
1	B	181	LEU	2.5
1	B	304	SER	2.5
1	B	312	VAL	2.3
1	B	359	ARG	2.3
1	B	373	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	247	LEU	2.3
1	A	243	ILE	2.2
1	B	356	GLU	2.2
1	B	378	LEU	2.2
1	B	185	PRO	2.1
1	A	366	LYS	2.1
1	B	156	LYS	2.1
1	B	252	VAL	2.0
1	B	305	GLU	2.0
1	A	359	ARG	2.0
1	B	237	ARG	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($\text{\AA}^2$)	Q<0.9
2	GOL	A	401	6/6	0.87	0.14	48,54,57,61	0
2	GOL	B	401	6/6	0.89	0.15	46,57,63,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.