



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 09:20 AM UTC

PDB ID : 5CXB / pdb_00005cxb
Title : Structure of Ytm1 bound to the C-terminal domain of Erb1 in P21 21 2 space group
Authors : Wegrecki, M.; Bravo, J.
Deposited on : 2015-07-28
Resolution : 2.10 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

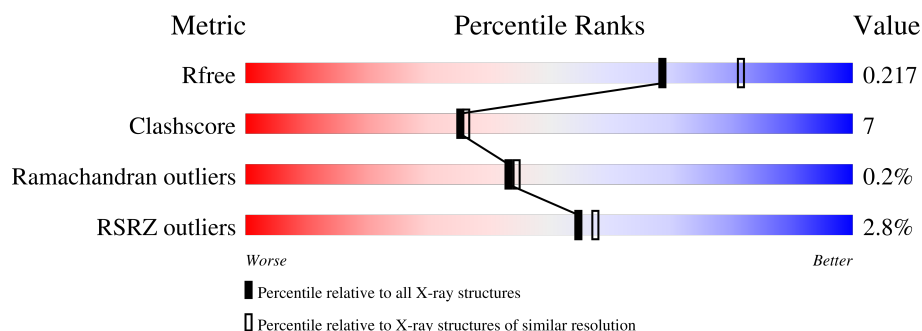
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	514	
2	B	369	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	A	503	-	-	X	-

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 6625 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 Ribosome biogenesis protein YTM1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	465	Total	C	N	O	S	0	1	0
			3505	2195	616	688	6			

There are 19 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-18	MET	-	initiating methionine	UNP G0SFB5
A	-17	ALA	-	expression tag	UNP G0SFB5
A	-16	HIS	-	expression tag	UNP G0SFB5
A	-15	HIS	-	expression tag	UNP G0SFB5
A	-14	HIS	-	expression tag	UNP G0SFB5
A	-13	HIS	-	expression tag	UNP G0SFB5
A	-12	HIS	-	expression tag	UNP G0SFB5
A	-11	HIS	-	expression tag	UNP G0SFB5
A	-10	SER	-	expression tag	UNP G0SFB5
A	-9	SER	-	expression tag	UNP G0SFB5
A	-8	GLY	-	expression tag	UNP G0SFB5
A	-7	LEU	-	expression tag	UNP G0SFB5
A	-6	GLU	-	expression tag	UNP G0SFB5
A	-5	VAL	-	expression tag	UNP G0SFB5
A	-4	LEU	-	expression tag	UNP G0SFB5
A	-3	PHE	-	expression tag	UNP G0SFB5
A	-2	GLN	-	expression tag	UNP G0SFB5
A	-1	GLY	-	expression tag	UNP G0SFB5
A	0	PRO	-	expression tag	UNP G0SFB5

- Molecule 2 is a protein called Ribosome biogenesis protein ERB1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	352	Total	C	N	O	S	0	0	0
			2768	1764	507	491	6			

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Na	0	0
			1	1		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total	Cl	0	0
			1	1		

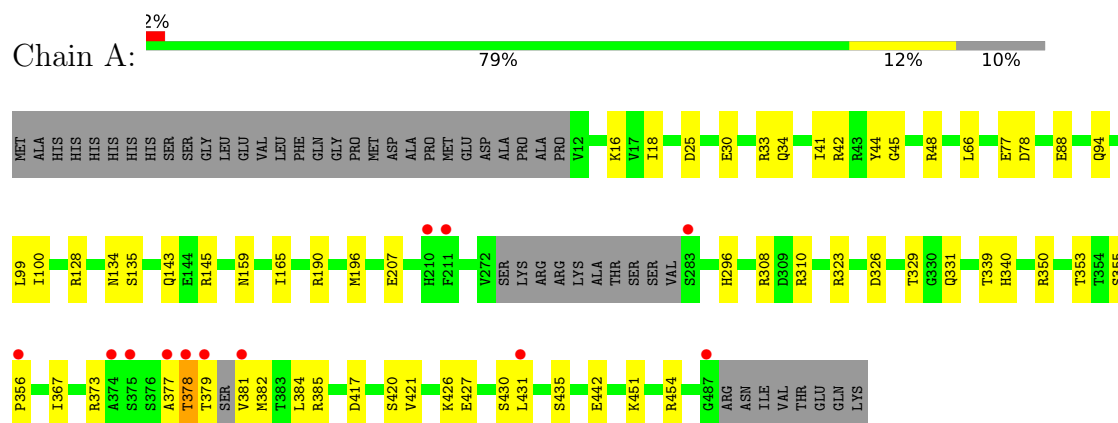
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	252	Total	O	0	0
			252	252		
7	B	74	Total	O	0	0
			74	74		

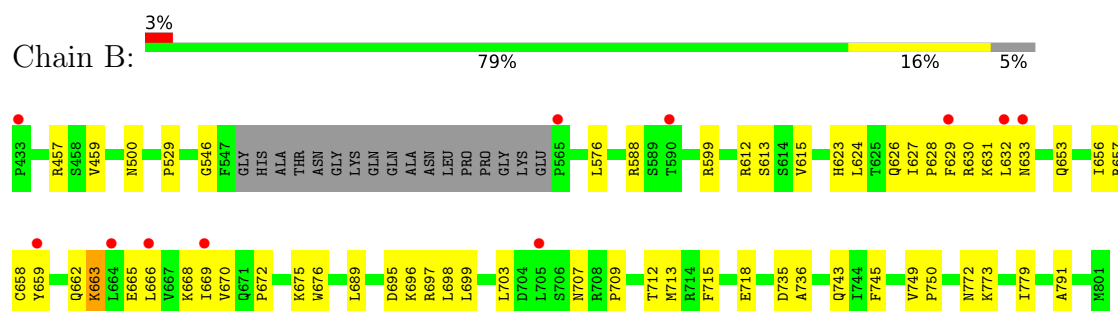
3 Residue-property plots [i](#)

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: Ribosome biogenesis protein YTM1



• Molecule 2: Ribosome biogenesis protein ERB1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	86.44Å 108.15Å 108.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.53 – 2.10 48.53 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.53-2.10) 99.9 (48.53-2.10)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 2.10Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.164 , 0.213 (Not available) , 0.217	Depositor DCC
R_{free} test set	1221 reflections (2.03%)	wwPDB-VP
Wilson B-factor (Å ²)	44.7	Xtriage
Anisotropy	0.291	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 58.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	0.026 for -h,l,k	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6625	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.41% 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: CL, EDO, GOL, NA

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	0.54	0/3584	0.79	0/4882
2	B	0.49	0/2843	0.85	0/3865
All	All	0.52	0/6427	0.82	0/8747

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

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	3505	0	3468	47	0
2	B	2768	0	2778	47	0
3	A	12	0	18	5	0
4	A	1	0	0	0	0
5	A	6	0	8	0	0
5	B	6	0	8	1	0
6	B	1	0	0	0	0
7	A	252	0	0	8	0
7	B	74	0	0	0	0
All	All	6625	0	6280	93	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 7.

All (93) 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)
2:B:657:ARG:NE	2:B:659:TYR:OH	2.09	0.85
2:B:657:ARG:HE	2:B:659:TYR:HH	1.24	0.84
1:A:442:GLU:OE1	1:A:454:ARG:NH1	2.16	0.79
2:B:627:ILE:O	2:B:630:ARG:NH2	2.21	0.74
1:A:44:TYR:OH	1:A:48:ARG:NH2	2.20	0.74
1:A:16:LYS:NZ	1:A:88:GLU:O	2.21	0.73
1:A:45:GLY:H	3:A:503:EDO:H22	1.53	0.72
2:B:588:ARG:NH1	2:B:613:SER:OG	2.23	0.72
1:A:41:ILE:HG13	3:A:503:EDO:H12	1.75	0.67
1:A:308:ARG:NH1	1:A:353:THR:O	2.29	0.66
2:B:633:ASN:ND2	2:B:657:ARG:HD2	2.13	0.64
2:B:669:ILE:O	2:B:707:ASN:ND2	2.31	0.64
2:B:612:ARG:NH2	2:B:630:ARG:O	2.25	0.61
2:B:662:GLN:HG3	2:B:663:LYS:H	1.68	0.59
2:B:665:GLU:N	2:B:665:GLU:OE1	2.36	0.59
1:A:382:MET:HE3	1:A:421:VAL:HG22	1.84	0.58
1:A:128:ARG:NH1	7:A:601:HOH:O	2.16	0.58
1:A:190:ARG:NH2	7:A:604:HOH:O	2.36	0.58
1:A:426:LYS:HA	1:A:430:SER:HB2	1.87	0.57
2:B:459:VAL:HG13	2:B:791:ALA:HB2	1.85	0.57
2:B:629:PHE:CZ	2:B:659:TYR:CG	2.91	0.57
1:A:367:ILE:HB	1:A:384:LEU:HB2	1.88	0.56
1:A:329:THR:OG1	1:A:331:GLN:HG2	2.06	0.55
1:A:339:THR:HG23	1:A:340:HIS:ND1	2.22	0.55
2:B:657:ARG:NE	2:B:659:TYR:HH	1.99	0.55
1:A:326:ASP:HB3	1:A:331:GLN:HG3	1.88	0.55
2:B:546:GLY:HA3	2:B:623:HIS:CD2	2.43	0.54
1:A:355:SER:HB2	1:A:373:ARG:CZ	2.38	0.54
2:B:658:CYS:HB3	2:B:668:LYS:HB3	1.90	0.53
2:B:624:LEU:HD21	2:B:626:GLN:NE2	2.24	0.53
2:B:599:ARG:NH1	5:B:902:GOL:O2	2.43	0.52
2:B:675:LYS:N	2:B:695:ASP:OD2	2.43	0.52
2:B:546:GLY:HA3	2:B:623:HIS:CG	2.45	0.51
2:B:633:ASN:HD21	2:B:657:ARG:HD2	1.75	0.51
1:A:190:ARG:NH1	7:A:611:HOH:O	2.43	0.50
1:A:77:GLU:HG2	1:A:78:ASP:N	2.26	0.50
1:A:339:THR:HG22	7:A:799:HOH:O	2.09	0.50
1:A:145:ARG:NH2	1:A:207:GLU:OE2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:378:THR:HG21	1:A:431:LEU:HD11	1.94	0.49
1:A:442:GLU:CD	1:A:454:ARG:HH12	2.19	0.49
1:A:381:VAL:HA	7:A:605:HOH:O	2.12	0.49
1:A:25:ASP:OD1	1:A:25:ASP:N	2.37	0.48
1:A:143:GLN:HG3	1:A:145:ARG:NH2	2.28	0.47
1:A:296:HIS:CE1	1:A:323:ARG:HG3	2.48	0.47
1:A:30:GLU:HG3	1:A:33:ARG:NH1	2.30	0.47
1:A:451:LYS:HE3	1:A:451:LYS:HB3	1.71	0.47
2:B:633:ASN:HD21	2:B:657:ARG:HH11	1.61	0.47
1:A:377:ALA:O	1:A:379:THR:N	2.38	0.47
1:A:134:ASN:O	1:A:135:SER:HB3	2.15	0.47
1:A:45:GLY:N	3:A:503:EDO:H22	2.24	0.47
2:B:743:GLN:HG2	2:B:745:PHE:CE1	2.50	0.46
1:A:356:PRO:HA	7:A:606:HOH:O	2.16	0.46
2:B:457:ARG:NH1	2:B:500:ASN:OD1	2.49	0.46
2:B:656:ILE:HB	2:B:670:VAL:HB	1.97	0.46
2:B:689:LEU:HD13	2:B:703:LEU:HD11	1.97	0.45
2:B:672:PRO:HB3	2:B:699:LEU:HD13	1.97	0.45
1:A:18:ILE:HG12	1:A:34:GLN:HG2	1.96	0.45
1:A:350:ARG:NH2	1:A:355:SER:O	2.41	0.45
1:A:66:LEU:HB2	1:A:94:GLN:HB3	1.97	0.45
1:A:99:LEU:HG	1:A:100:ILE:O	2.17	0.44
2:B:612:ARG:HH22	2:B:630:ARG:C	2.17	0.44
2:B:615:VAL:O	2:B:627:ILE:HG23	2.18	0.44
1:A:426:LYS:HG3	1:A:427:GLU:OE1	2.17	0.44
2:B:629:PHE:CE1	2:B:665:GLU:HG3	2.52	0.44
1:A:159:ASN:HB3	1:A:165:ILE:HD11	2.00	0.44
2:B:624:LEU:HD21	2:B:626:GLN:HE21	1.82	0.43
1:A:382:MET:HE3	1:A:435:SER:HB2	2.01	0.43
2:B:713:MET:HB3	2:B:715:PHE:CE1	2.54	0.43
2:B:713:MET:HB3	2:B:715:PHE:HE1	1.82	0.43
1:A:310:ARG:HD3	1:A:310:ARG:HA	1.78	0.43
2:B:659:TYR:HD1	2:B:666:LEU:HA	1.83	0.43
2:B:699:LEU:HD22	2:B:709:PRO:CG	2.49	0.43
1:A:77:GLU:HG2	1:A:78:ASP:H	1.84	0.42
1:A:42:ARG:HB2	3:A:503:EDO:H21	2.01	0.42
2:B:743:GLN:HG2	2:B:745:PHE:CZ	2.54	0.42
2:B:698:LEU:HD22	2:B:735:ASP:OD2	2.19	0.42
1:A:385:ARG:HD3	7:A:826:HOH:O	2.19	0.42
2:B:696:LYS:HG2	2:B:718:GLU:C	2.44	0.42
1:A:420:SER:HB3	7:A:759:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:631:LYS:O	2:B:632:LEU:HG	2.20	0.42
2:B:749:VAL:HA	2:B:750:PRO:HD3	1.89	0.41
2:B:612:ARG:HH21	2:B:612:ARG:HG3	1.85	0.41
2:B:772:ASN:OD1	2:B:773:LYS:HE3	2.21	0.41
2:B:576:LEU:HD23	2:B:576:LEU:HA	1.92	0.41
2:B:697:ARG:HD3	2:B:712:THR:HG23	2.02	0.41
1:A:377:ALA:C	1:A:379:THR:H	2.24	0.41
2:B:633:ASN:OD1	2:B:657:ARG:NH1	2.53	0.41
1:A:417:ASP:HB2	3:A:502:EDO:H22	2.03	0.41
2:B:736:ALA:HB2	2:B:779:ILE:HD13	2.02	0.41
1:A:353:THR:HG22	1:A:355:SER:H	1.86	0.40
2:B:653:GLN:HG3	2:B:676:TRP:CD1	2.56	0.40
2:B:628:PRO:O	2:B:629:PHE:C	2.64	0.40
1:A:196:MET:HB3	2:B:529:PRO:HG3	2.04	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	460/514 (90%)	446 (97%)	13 (3%)	1 (0%)	43	44
2	B	348/369 (94%)	329 (94%)	18 (5%)	1 (0%)	36	36
All	All	808/883 (92%)	775 (96%)	31 (4%)	2 (0%)	43	44

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	663	LYS
1	A	378	THR

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

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 7 ligands modelled in this entry, 2 are monoatomic - leaving 5 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	$\# Z > 2$
3	EDO	A	503	-	3,3,3	0.37	0	2,2,2	0.57	0
5	GOL	B	902	-	5,5,5	0.33	0	5,5,5	0.45	0
5	GOL	A	505	-	5,5,5	0.39	0	5,5,5	0.18	0
3	EDO	A	502	-	3,3,3	0.57	0	2,2,2	0.05	0
3	EDO	A	501	-	3,3,3	0.51	0	2,2,2	0.28	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
3	EDO	A	503	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GOL	B	902	-	-	1/4/4/4	-
5	GOL	A	505	-	-	4/4/4/4	-
3	EDO	A	502	-	-	1/1/1/1	-
3	EDO	A	501	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	505	GOL	O1-C1-C2-C3
5	A	505	GOL	C1-C2-C3-O3
5	A	505	GOL	O2-C2-C3-O3
5	A	505	GOL	O1-C1-C2-O2
3	A	502	EDO	O1-C1-C2-O2
5	B	902	GOL	O1-C1-C2-O2
3	A	503	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	503	EDO	4	0
5	B	902	GOL	1	0
3	A	502	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	465/514 (90%)	-0.11	12 (2%) 57 60	22, 50, 94, 137	2 (0%)
2	B	352/369 (95%)	0.14	11 (3%) 51 54	35, 70, 115, 165	5 (1%)
All	All	817/883 (92%)	-0.00	23 (2%) 55 57	22, 58, 107, 165	7 (0%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	377	ALA	3.4
1	A	379	THR	3.3
1	A	374	ALA	3.2
2	B	629	PHE	2.9
1	A	381	VAL	2.8
1	A	378	THR	2.7
2	B	666	LEU	2.6
1	A	356	PRO	2.6
2	B	633	ASN	2.5
1	A	431	LEU	2.4
2	B	433	PRO	2.4
1	A	210	HIS	2.4
2	B	669	ILE	2.3
2	B	705	LEU	2.3
2	B	590	THR	2.2
1	A	375	SER	2.2
1	A	487	GLY	2.2
2	B	664	LEU	2.2
1	A	211	PHE	2.1
2	B	632	LEU	2.1
1	A	283	SER	2.1
2	B	659	TYR	2.1
2	B	565	PRO	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
5	GOL	B	902	6/6	0.64	0.13	99,100,102,106	0
5	GOL	A	505	6/6	0.87	0.12	78,92,93,99	0
3	EDO	A	502	4/4	0.87	0.19	55,69,73,74	0
3	EDO	A	503	4/4	0.88	0.10	52,58,65,70	0
6	CL	B	901	1/1	0.91	0.13	72,72,72,72	0
3	EDO	A	501	4/4	0.94	0.16	44,48,50,56	0
4	NA	A	504	1/1	0.97	0.05	54,54,54,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.