



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 06:31 AM UTC

PDB ID : 6FIJ / pdb_00006fj
Title : Structure of the loading/condensing region (SAT-KS-MAT) of the cercosporin fungal non-reducing polyketide synthase (NR-PKS) CTB1
Authors : Herbst, D.A.; Jakob, R.P.; Townsend, C.A.; Maier, T.
Deposited on : 2018-01-18
Resolution : 2.77 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

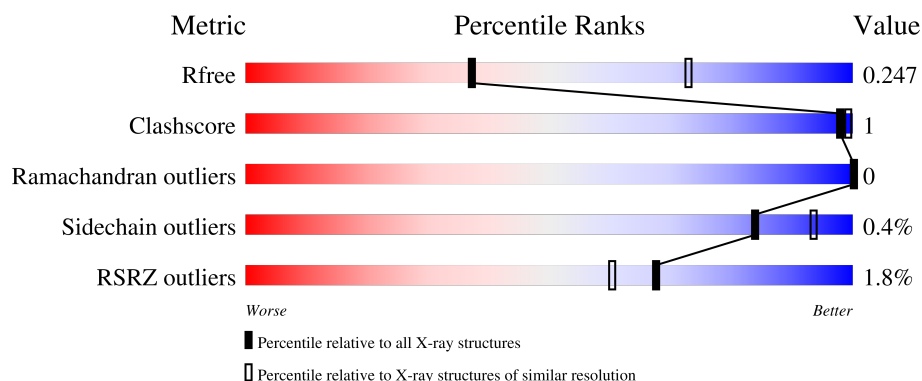
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

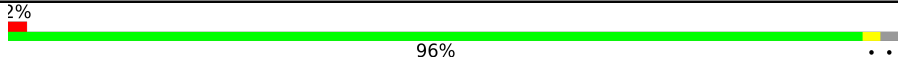
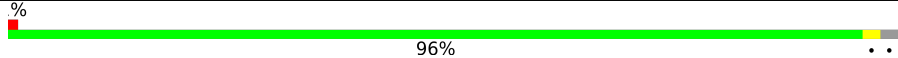
The reported resolution of this entry is 2.77 Å.

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	5248 (2.80-2.76)
Clashscore	190562	5693 (2.80-2.76)
Ramachandran outliers	187476	5590 (2.80-2.76)
Sidechain outliers	187428	5592 (2.80-2.76)
RSRZ outliers	180081	5251 (2.80-2.76)

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	1304	 2% 96% ..
1	B	1304	 % 96% ..

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 39201 atoms, of which 19334 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 Polyketide synthase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	1275	Total	C	H	N	O	S	0	7	0
			19321	6087	9607	1733	1851	43			
1	B	1275	Total	C	H	N	O	S	0	8	0
			19361	6098	9629	1738	1853	43			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	321	ALA	THR	engineered mutation	UNP Q6DQW3
A	1294	ALA	-	expression tag	UNP Q6DQW3
A	1295	ALA	-	expression tag	UNP Q6DQW3
A	1296	ALA	-	expression tag	UNP Q6DQW3
A	1297	LEU	-	expression tag	UNP Q6DQW3
A	1298	GLU	-	expression tag	UNP Q6DQW3
A	1299	HIS	-	expression tag	UNP Q6DQW3
A	1300	HIS	-	expression tag	UNP Q6DQW3
A	1301	HIS	-	expression tag	UNP Q6DQW3
A	1302	HIS	-	expression tag	UNP Q6DQW3
A	1303	HIS	-	expression tag	UNP Q6DQW3
A	1304	HIS	-	expression tag	UNP Q6DQW3
B	321	ALA	THR	engineered mutation	UNP Q6DQW3
B	1294	ALA	-	expression tag	UNP Q6DQW3
B	1295	ALA	-	expression tag	UNP Q6DQW3
B	1296	ALA	-	expression tag	UNP Q6DQW3
B	1297	LEU	-	expression tag	UNP Q6DQW3
B	1298	GLU	-	expression tag	UNP Q6DQW3
B	1299	HIS	-	expression tag	UNP Q6DQW3
B	1300	HIS	-	expression tag	UNP Q6DQW3
B	1301	HIS	-	expression tag	UNP Q6DQW3
B	1302	HIS	-	expression tag	UNP Q6DQW3
B	1303	HIS	-	expression tag	UNP Q6DQW3
B	1304	HIS	-	expression tag	UNP Q6DQW3

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	3	8	3		
3	A	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Mg	0	0
			1	1		

- Molecule 5 is 2,3-DIHYDROXY-1,4-DITHIOBUTANE (CCD ID: DTT) (formula: C₄H₁₀O₂S₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	B	1	Total	C	H	O	S	0	0
			18	4	10	2	2		

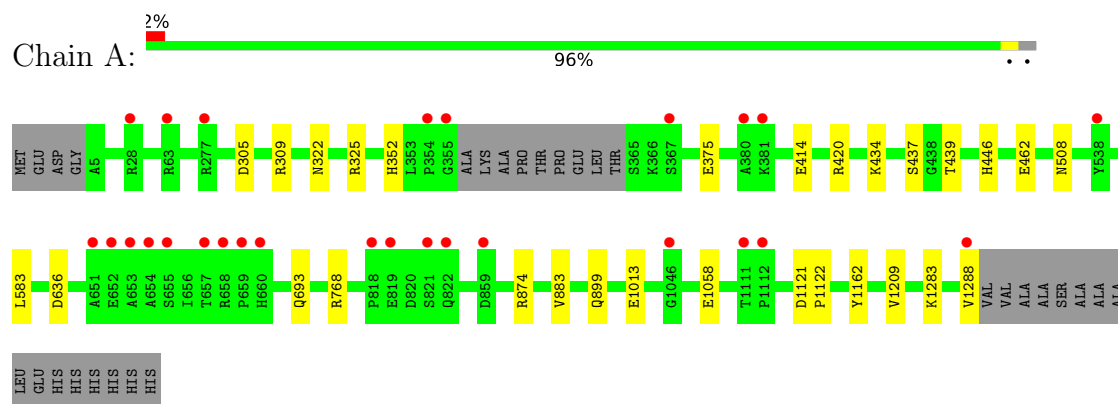
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	164	Total	O	0	0
			164	164		
6	B	188	Total	O	0	0
			188	188		

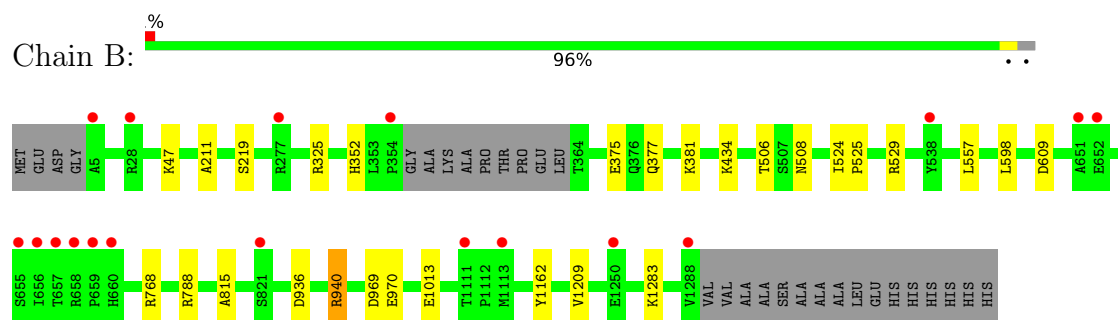
3 Residue-property plots [i](#)

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: Polyketide synthase



• Molecule 1: Polyketide synthase



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	108.05Å 230.20Å 253.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	63.45 – 2.77 63.45 – 2.77	Depositor EDS
% Data completeness (in resolution range)	99.0 (63.45-2.77) 99.1 (63.45-2.77)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 2.77Å)	Xtriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.205 , 0.240 0.212 , 0.247	Depositor DCC
R_{free} test set	3920 reflections (4.73%)	wwPDB-VP
Wilson B-factor (Å ²)	64.3	Xtriage
Anisotropy	0.353	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 41.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	39201	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.43% 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, DTT, MG, EDO

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	0.11	0/9927	0.27	0/13521
1	B	0.11	0/9945	0.27	0/13545
All	All	0.11	0/19872	0.27	0/27066

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	9714	9607	9600	15	0
1	B	9732	9629	9621	13	0
2	A	24	36	36	0	0
2	B	24	36	36	0	0
3	A	12	16	16	0	0
4	B	1	0	0	0	0
5	B	8	10	10	0	0
6	A	164	0	0	1	0
6	B	188	0	0	1	0
All	All	19867	19334	19319	28	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 1.

All (28) 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:325:ARG:NH1	1:A:352:HIS:O	2.23	0.70
1:B:325:ARG:NH1	1:B:352:HIS:O	2.36	0.58
1:A:437:SER:OG	1:A:439:THR:O	2.23	0.57
1:A:434:LYS:NZ	1:A:1283:LYS:O	2.38	0.53
1:A:420:ARG:NH2	1:A:583:LEU:O	2.41	0.53
1:A:462:GLU:OE2	6:A:1501:HOH:O	2.19	0.52
1:A:883:VAL:O	1:A:899:GLN:NE2	2.44	0.50
1:A:636:ASP:OD1	1:A:874:ARG:NH2	2.46	0.48
1:B:47:LYS:NZ	6:B:1523:HOH:O	2.46	0.48
1:B:434:LYS:NZ	1:B:1283:LYS:O	2.36	0.47
1:B:375:GLU:OE1	1:B:375:GLU:N	2.46	0.47
1:A:414:GLU:OE2	1:A:446:HIS:NE2	2.46	0.46
1:B:609:ASP:OD1	1:B:768[B]:ARG:NH1	2.48	0.46
1:A:1013:GLU:OE1	1:A:1162:TYR:OH	2.30	0.46
1:B:506:THR:O	1:B:529:ARG:NH2	2.49	0.46
1:A:322:ASN:OD1	1:A:325:ARG:NH2	2.50	0.45
1:B:524:ILE:HB	1:B:525:PRO:HD3	1.99	0.44
1:A:1058:GLU:OE1	1:A:1058:GLU:N	2.51	0.43
1:B:377:GLN:NE2	1:B:381:LYS:O	2.51	0.43
1:B:1013:GLU:OE1	1:B:1162:TYR:OH	2.37	0.43
1:A:305:ASP:OD1	1:A:309:ARG:NH1	2.48	0.42
1:B:788:ARG:NH2	1:B:815:ALA:O	2.45	0.42
1:A:1121:ASP:N	1:A:1122:PRO:HD2	2.36	0.41
1:A:693:GLN:OE1	1:A:768:ARG:NH1	2.54	0.41
1:B:211:ALA:HB3	1:B:219:SER:HB3	2.02	0.41
1:B:936:ASP:O	1:B:940:ARG:HD3	2.20	0.41
1:B:969:ASP:O	1:B:970:GLU:HB2	2.21	0.41
1:A:375:GLU:OE1	1:A:375:GLU:N	2.47	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	1278/1304 (98%)	1240 (97%)	38 (3%)	0	100	100
1	B	1279/1304 (98%)	1242 (97%)	37 (3%)	0	100	100
All	All	2557/2608 (98%)	2482 (97%)	75 (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	1034/1048 (99%)	1031 (100%)	3 (0%)	86	94
1	B	1036/1048 (99%)	1031 (100%)	5 (0%)	81	92
All	All	2070/2096 (99%)	2062 (100%)	8 (0%)	84	93

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	508	ASN
1	A	1209	VAL
1	A	1288	VAL
1	B	508	ASN
1	B	557	LEU
1	B	598	LEU
1	B	940	ARG
1	B	1209	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	6	GLN
1	A	85	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	189	GLN
1	A	262	HIS
1	A	352	HIS
1	A	483	GLN
1	A	758	HIS
1	A	776	ASN
1	A	807	ASN
1	A	830	HIS
1	A	878	HIS
1	A	1025	GLN
1	A	1189	ASN
1	A	1214	GLN
1	A	1270	ASN
1	B	6	GLN
1	B	186	GLN
1	B	189	GLN
1	B	262	HIS
1	B	323	HIS
1	B	352	HIS
1	B	395	GLN
1	B	408	ASN
1	B	878	HIS
1	B	926	GLN
1	B	1025	GLN
1	B	1037	GLN
1	B	1159	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 16 ligands modelled in this entry, 1 is monoatomic - leaving 15 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	EDO	B	1402	-	3,3,3	0.33	0	2,2,2	0.44	0
2	EDO	B	1404	-	3,3,3	0.34	0	2,2,2	0.33	0
2	EDO	A	1403	-	3,3,3	0.29	0	2,2,2	0.22	0
2	EDO	B	1401	-	3,3,3	0.40	0	2,2,2	0.28	0
2	EDO	B	1406	-	3,3,3	0.41	0	2,2,2	0.26	0
3	GOL	A	1407	-	5,5,5	0.11	0	5,5,5	0.47	0
2	EDO	A	1406	-	3,3,3	0.36	0	2,2,2	0.38	0
2	EDO	A	1405	-	3,3,3	0.26	0	2,2,2	0.45	0
2	EDO	B	1403	-	3,3,3	0.36	0	2,2,2	0.40	0
5	DTT	B	1408	-	7,7,7	0.33	0	4,8,8	1.13	0
3	GOL	A	1408	-	5,5,5	0.42	0	5,5,5	0.94	0
2	EDO	B	1405	-	3,3,3	0.24	0	2,2,2	0.24	0
2	EDO	A	1404	-	3,3,3	0.31	0	2,2,2	0.43	0
2	EDO	A	1401	-	3,3,3	0.35	0	2,2,2	0.23	0
2	EDO	A	1402	-	3,3,3	0.34	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
2	EDO	B	1402	-	-	0/1/1/1	-
2	EDO	B	1404	-	-	1/1/1/1	-
2	EDO	A	1403	-	-	1/1/1/1	-
2	EDO	B	1401	-	-	1/1/1/1	-
2	EDO	B	1406	-	-	1/1/1/1	-
3	GOL	A	1407	-	-	2/4/4/4	-
2	EDO	A	1406	-	-	0/1/1/1	-
2	EDO	A	1405	-	-	1/1/1/1	-
2	EDO	B	1403	-	-	0/1/1/1	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	DTT	B	1408	-	-	3/8/8/8	-
3	GOL	A	1408	-	-	2/4/4/4	-
2	EDO	B	1405	-	-	0/1/1/1	-
2	EDO	A	1404	-	-	0/1/1/1	-
2	EDO	A	1401	-	-	0/1/1/1	-
2	EDO	A	1402	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1407	GOL	O1-C1-C2-C3
5	B	1408	DTT	C1-C2-C3-O3
5	B	1408	DTT	O2-C2-C3-C4
3	A	1408	GOL	C1-C2-C3-O3
3	A	1407	GOL	O1-C1-C2-O2
2	A	1405	EDO	O1-C1-C2-O2
5	B	1408	DTT	O2-C2-C3-O3
2	B	1401	EDO	O1-C1-C2-O2
2	A	1403	EDO	O1-C1-C2-O2
2	B	1404	EDO	O1-C1-C2-O2
3	A	1408	GOL	O2-C2-C3-O3
2	A	1402	EDO	O1-C1-C2-O2
2	B	1406	EDO	O1-C1-C2-O2

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	1275/1304 (97%)	0.05	27 (2%) 63 56	29, 67, 102, 133	7 (0%)
1	B	1275/1304 (97%)	0.02	18 (1%) 73 67	28, 66, 102, 129	8 (0%)
All	All	2550/2608 (97%)	0.04	45 (1%) 67 60	28, 67, 102, 133	15 (0%)

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	659	PRO	5.5
1	A	655	SER	4.9
1	B	28[A]	ARG	4.3
1	B	659	PRO	4.1
1	A	654	ALA	4.1
1	A	657	THR	3.9
1	A	355	GLY	3.8
1	B	354	PRO	3.8
1	B	657	THR	3.7
1	B	5	ALA	3.4
1	B	538[A]	TYR	3.3
1	A	28[A]	ARG	3.2
1	A	538[A]	TYR	3.2
1	A	653	ALA	3.1
1	A	1288	VAL	3.1
1	A	381	LYS	3.1
1	A	660	HIS	3.0
1	A	658	ARG	3.0
1	B	1111	THR	3.0
1	A	822	GLN	3.0
1	A	652	GLU	2.9
1	A	1112	PRO	2.9
1	A	63[A]	ARG	2.8
1	A	380	ALA	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	652	GLU	2.7
1	B	655	SER	2.7
1	B	656	ILE	2.7
1	B	1288	VAL	2.6
1	B	660	HIS	2.5
1	A	354	PRO	2.5
1	B	821	SER	2.4
1	A	818	PRO	2.4
1	A	819	GLU	2.4
1	A	859	ASP	2.3
1	A	1111	THR	2.3
1	A	651	ALA	2.3
1	A	821	SER	2.3
1	A	1046	GLY	2.3
1	B	1250[A]	GLU	2.2
1	A	367	SER	2.2
1	A	277[A]	ARG	2.0
1	B	277[A]	ARG	2.0
1	B	651	ALA	2.0
1	B	1113	MET	2.0
1	B	658	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
5	DTT	B	1408	8/8	0.67	0.20	104,124,129,131	0
2	EDO	A	1405	4/4	0.69	0.20	70,85,87,89	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	A	1401	4/4	0.73	0.17	71,85,86,86	0
2	EDO	B	1403	4/4	0.74	0.21	74,89,89,91	0
2	EDO	A	1406	4/4	0.75	0.16	69,82,85,85	0
3	GOL	A	1407	6/6	0.76	0.20	65,78,83,83	0
2	EDO	B	1401	4/4	0.77	0.15	84,100,102,103	0
3	GOL	A	1408	6/6	0.79	0.17	87,104,107,107	0
2	EDO	B	1406	4/4	0.82	0.18	63,76,79,79	0
2	EDO	A	1403	4/4	0.82	0.13	75,91,95,97	0
2	EDO	A	1402	4/4	0.84	0.19	69,83,86,87	0
2	EDO	B	1405	4/4	0.84	0.32	71,86,90,90	0
2	EDO	B	1404	4/4	0.87	0.13	56,68,71,73	0
2	EDO	B	1402	4/4	0.88	0.12	60,72,73,75	0
2	EDO	A	1404	4/4	0.89	0.14	54,65,68,69	0
4	MG	B	1407	1/1	0.98	0.02	53,53,53,53	1

6.5 Other polymers [i](#)

There are no such residues in this entry.