



# Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 01:40 am BST

PDB ID : 6FIJ  
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](mailto: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.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

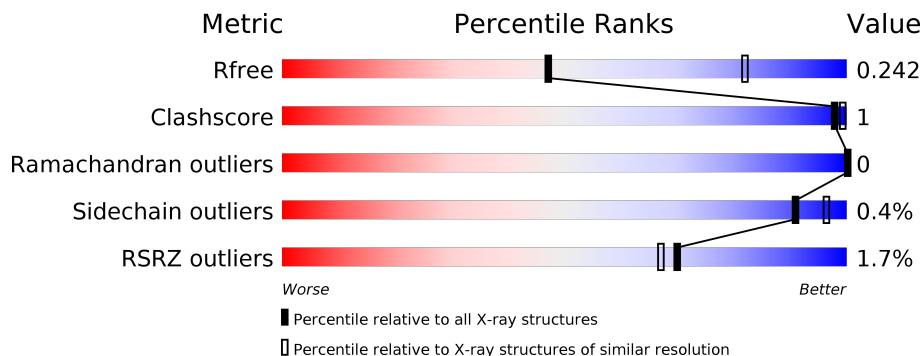
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

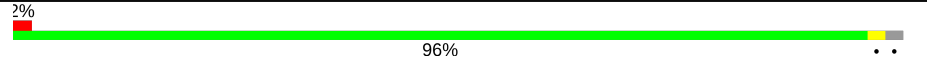
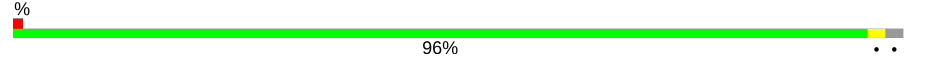
The reported resolution of this entry is 2.77 Å.

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))
$R_{free}$	130704	4107 (2.80-2.76)
Clashscore	141614	4575 (2.80-2.76)
Ramachandran outliers	138981	4487 (2.80-2.76)
Sidechain outliers	138945	4489 (2.80-2.76)
RSRZ outliers	127900	4027 (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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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%

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
2	EDO	B	1406	-	-	-	X

## 2 Entry composition [i](#)

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.

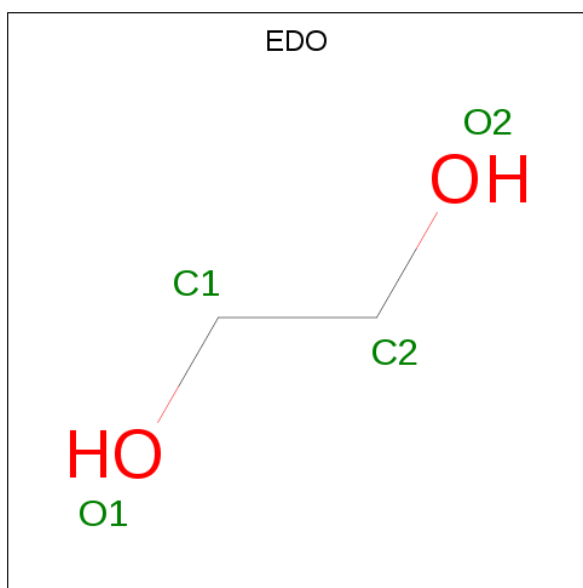
- Molecule 1 is a protein called Polyketide synthase.

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

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 (three-letter code: 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 (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).

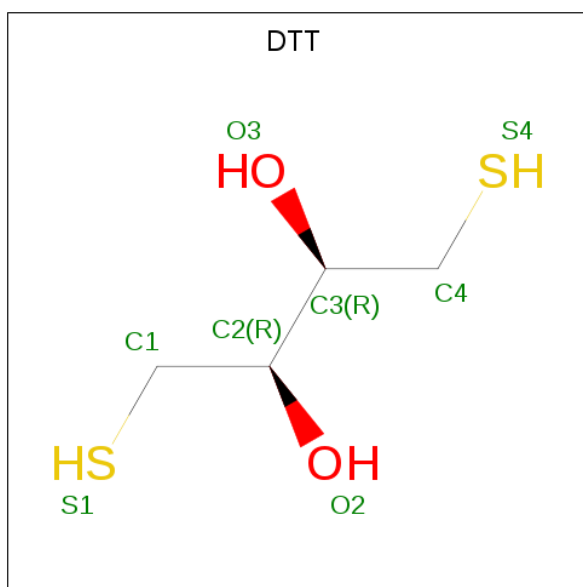


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	3	8	3		
3	A	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 4 is MAGNESIUM ION (three-letter code: 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 (three-letter code: DTT) (formula: C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>S<sub>2</sub>).



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

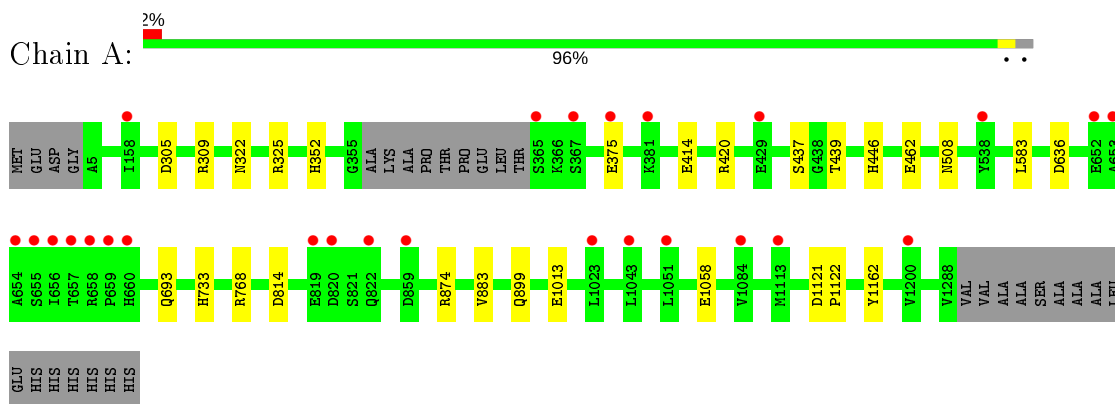
- Molecule 6 is water.

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

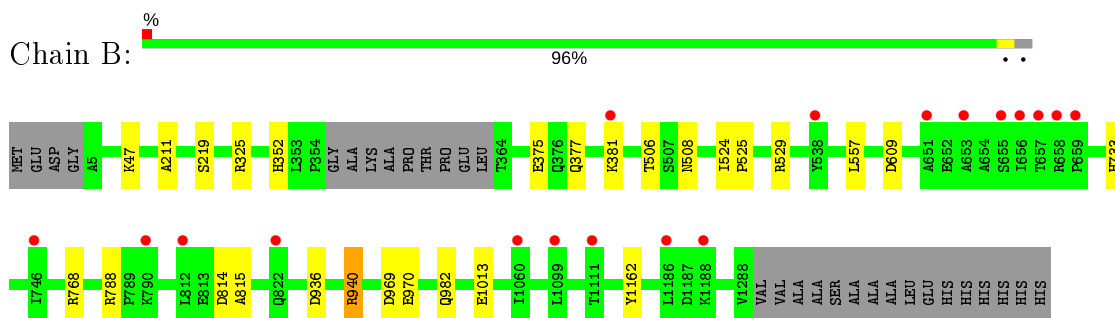
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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, $\alpha$ , $\beta$ , $\gamma$	108.05Å 230.20Å 253.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	63.45 – 2.77 126.90 – 2.77	Depositor EDS
% Data completeness (in resolution range)	99.0 (63.45-2.77) 99.1 (126.90-2.77)	Depositor EDS
$R_{merge}$	0.21	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.16 (at 2.77Å)	Xtrriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, $R_{free}$	0.205 , 0.240 0.207 , 0.242	Depositor DCC
$R_{free}$ test set	3920 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	64.3	Xtrriage
Anisotropy	0.353	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 40.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	39201	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	70.0	wwPDB-VP

Xtrriage'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.*

<sup>1</sup> Intensities estimated from amplitudes.

<sup>2</sup> Theoretical 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, MG, EDO, DTT

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	0.24	0/9927	0.42	0/13521
1	B	0.25	0/9945	0.42	0/13545
All	All	0.24	0/19872	0.42	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	14	0
1	B	9732	9629	9621	12	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	26	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 (26) 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: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:375:GLU:N	1:B:375:GLU:OE1	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:N	1:A:1058:GLU:OE1	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: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:693:GLN:OE1	1:A:768:ARG:NH1	2.54	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 [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	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 [i](#)

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%)	92	97
1	B	1036/1048 (99%)	1030 (99%)	6 (1%)	86	95
All	All	2070/2096 (99%)	2061 (100%)	9 (0%)	91	96

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	508	ASN
1	A	733	HIS
1	A	814	ASP
1	B	508	ASN
1	B	557	LEU
1	B	733	HIS
1	B	814	ASP
1	B	940	ARG
1	B	982	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	85	GLN
1	B	262	HIS

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Mol	Chain	Res	Type
1	B	377	GLN
1	B	807	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 carbohydrates in this entry.

### 5.6 Ligand geometry [i](#)

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	$\# Z  > 2$
5	DTT	B	1408	-	7,7,7	0.33	0	4,8,8	1.10	0
3	GOL	A	1407	-	5,5,5	0.11	0	5,5,5	0.43	0
2	EDO	A	1402	-	3,3,3	0.37	0	2,2,2	0.23	0
2	EDO	B	1404	-	3,3,3	0.37	0	2,2,2	0.29	0
2	EDO	A	1406	-	3,3,3	0.38	0	2,2,2	0.34	0
2	EDO	A	1401	-	3,3,3	0.38	0	2,2,2	0.17	0
2	EDO	B	1401	-	3,3,3	0.43	0	2,2,2	0.23	0
2	EDO	A	1405	-	3,3,3	0.28	0	2,2,2	0.41	0
2	EDO	B	1405	-	3,3,3	0.25	0	2,2,2	0.20	0
2	EDO	A	1404	-	3,3,3	0.34	0	2,2,2	0.39	0
2	EDO	B	1402	-	3,3,3	0.35	0	2,2,2	0.40	0
2	EDO	B	1403	-	3,3,3	0.39	0	2,2,2	0.36	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	EDO	B	1406	-	3,3,3	0.45	0	2,2,2	0.20	0
2	EDO	A	1403	-	3,3,3	0.32	0	2,2,2	0.24	0
3	GOL	A	1408	-	5,5,5	0.40	0	5,5,5	0.88	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
5	DTT	B	1408	-	-	3/8/8/8	-
3	GOL	A	1407	-	-	2/4/4/4	-
2	EDO	A	1402	-	-	1/1/1/1	-
2	EDO	B	1404	-	-	1/1/1/1	-
2	EDO	A	1406	-	-	0/1/1/1	-
2	EDO	A	1401	-	-	0/1/1/1	-
2	EDO	B	1401	-	-	1/1/1/1	-
2	EDO	A	1405	-	-	1/1/1/1	-
2	EDO	B	1405	-	-	0/1/1/1	-
2	EDO	A	1404	-	-	0/1/1/1	-
2	EDO	B	1402	-	-	0/1/1/1	-
2	EDO	B	1403	-	-	0/1/1/1	-
2	EDO	B	1406	-	-	1/1/1/1	-
2	EDO	A	1403	-	-	1/1/1/1	-
3	GOL	A	1408	-	-	2/4/4/4	-

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
5	B	1408	DTT	C1-C2-C3-O3
5	B	1408	DTT	O2-C2-C3-C4
3	A	1407	GOL	O1-C1-C2-C3
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

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Mol	Chain	Res	Type	Atoms
2	A	1403	EDO	O1-C1-C2-O2
2	A	1402	EDO	O1-C1-C2-O2
2	B	1404	EDO	O1-C1-C2-O2
2	B	1406	EDO	O1-C1-C2-O2
3	A	1408	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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	1275/1304 (97%)	0.41	26 (2%) 65 61	38, 62, 92, 125	0
1	B	1275/1304 (97%)	0.37	18 (1%) 75 73	38, 61, 93, 117	0
All	All	2550/2608 (97%)	0.39	44 (1%) 70 67	38, 61, 92, 125	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	655	SER	7.5
1	A	658	ARG	6.6
1	A	659	PRO	5.3
1	A	657	THR	4.9
1	A	654	ALA	4.6
1	A	820	ASP	4.5
1	B	657	THR	4.3
1	B	655	SER	4.2
1	A	859	ASP	4.1
1	B	659	PRO	3.6
1	A	381	LYS	3.5
1	A	656	ILE	3.4
1	B	822	GLN	3.4
1	A	653	ALA	3.4
1	B	538[A]	TYR	3.4
1	A	538[A]	TYR	3.2
1	A	429	GLU	3.1
1	B	658	ARG	3.0
1	A	1113	MET	3.0
1	B	381	LYS	2.9
1	B	656	ILE	2.8
1	B	653	ALA	2.7
1	A	822	GLN	2.5
1	B	1060	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	1188	LYS	2.5
1	A	365	SER	2.4
1	A	1051	LEU	2.3
1	B	790	LYS	2.3
1	A	1043	LEU	2.3
1	A	652	GLU	2.3
1	A	1084	VAL	2.2
1	A	375	GLU	2.2
1	A	660	HIS	2.2
1	B	651	ALA	2.1
1	B	1111	THR	2.1
1	B	812	LEU	2.1
1	A	367	SER	2.1
1	A	158	ILE	2.1
1	A	1023	LEU	2.1
1	B	1186	LEU	2.0
1	B	1099	LEU	2.0
1	A	819	GLU	2.0
1	B	746	ILE	2.0
1	A	1200	VAL	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 carbohydrates 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
5	DTT	B	1408	8/8	0.59	0.27	104,124,129,131	0
2	EDO	A	1402	4/4	0.69	0.39	69,83,86,87	0
2	EDO	B	1401	4/4	0.71	0.39	84,100,102,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
2	EDO	B	1406	4/4	0.79	0.53	63,76,79,79	0
2	EDO	A	1401	4/4	0.81	0.20	71,85,86,86	0
3	GOL	A	1408	6/6	0.81	0.32	87,104,107,107	0
2	EDO	B	1403	4/4	0.82	0.64	74,89,89,91	0
3	GOL	A	1407	6/6	0.83	0.27	65,78,83,83	0
2	EDO	A	1406	4/4	0.83	0.29	69,82,85,85	0
2	EDO	A	1405	4/4	0.83	0.28	70,85,87,89	0
2	EDO	B	1405	4/4	0.85	0.92	71,86,90,90	0
2	EDO	A	1403	4/4	0.86	0.22	75,91,95,97	0
2	EDO	B	1402	4/4	0.86	0.27	60,72,73,75	0
2	EDO	A	1404	4/4	0.88	0.35	54,65,68,69	0
2	EDO	B	1404	4/4	0.92	0.31	56,68,71,73	0
4	MG	B	1407	1/1	0.94	0.04	53,53,53,53	1

## 6.5 Other polymers [i](#)

There are no such residues in this entry.