Full wwPDB X-ray Structure Validation Report (i)

Aug 5, 2026 – 03:43 PM EDT

PDB ID	:	1VME / pdb_00001vme
Title	:	Crystal structure of Flavoprotein (TM0755) from Thermotoga maritima at 1.80 A resolution
Authors	:	Joint Center for Structural Genomics (JCSG)
Deposited on	:	2004-09-21
Resolution	:	1.80 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 (i) 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 (i)) were used in the production of this report:

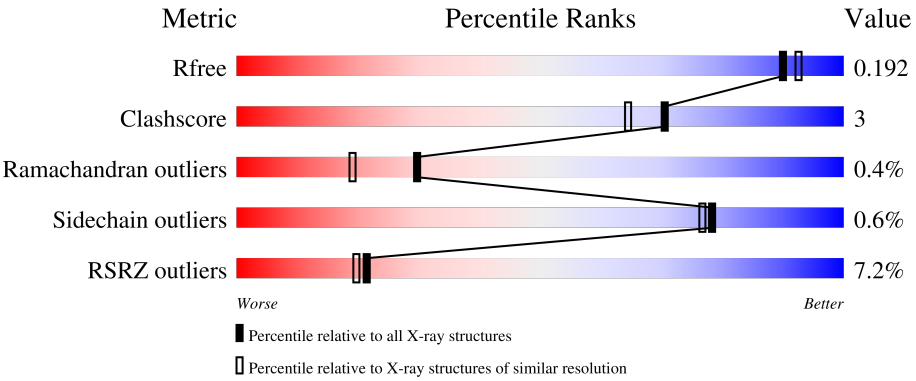
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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 <=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	410	9% 90% 7%
1	B	410	5% 90% 7%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7037 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 Flavoprotein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	402	Total	C	N	O	S	Se	0	20	0
			3295	2150	526	609	1	9			
1	B	400	Total	C	N	O	S	Se	0	24	0
			3279	2140	525	604	1	9			

There are 38 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-11	MET	-	initiating methionine	UNP Q9WZL4
A	-10	GLY	-	cloning artifact	UNP Q9WZL4
A	-9	SER	-	cloning artifact	UNP Q9WZL4
A	-8	ASP	-	cloning artifact	UNP Q9WZL4
A	-7	LYS	-	cloning artifact	UNP Q9WZL4
A	-6	ILE	-	cloning artifact	UNP Q9WZL4
A	-5	HIS	-	expression tag	UNP Q9WZL4
A	-4	HIS	-	expression tag	UNP Q9WZL4
A	-3	HIS	-	expression tag	UNP Q9WZL4
A	-2	HIS	-	expression tag	UNP Q9WZL4
A	-1	HIS	-	expression tag	UNP Q9WZL4
A	0	HIS	-	expression tag	UNP Q9WZL4
A	1	MSE	MET	modified residue	UNP Q9WZL4
A	146	MSE	MET	modified residue	UNP Q9WZL4
A	156	MSE	MET	modified residue	UNP Q9WZL4
A	263	MSE	MET	modified residue	UNP Q9WZL4
A	271	MSE	MET	modified residue	UNP Q9WZL4
A	326	MSE	MET	modified residue	UNP Q9WZL4
A	381	MSE	MET	modified residue	UNP Q9WZL4
B	-11	MET	-	initiating methionine	UNP Q9WZL4
B	-10	GLY	-	cloning artifact	UNP Q9WZL4
B	-9	SER	-	cloning artifact	UNP Q9WZL4
B	-8	ASP	-	cloning artifact	UNP Q9WZL4
B	-7	LYS	-	cloning artifact	UNP Q9WZL4
B	-6	ILE	-	cloning artifact	UNP Q9WZL4

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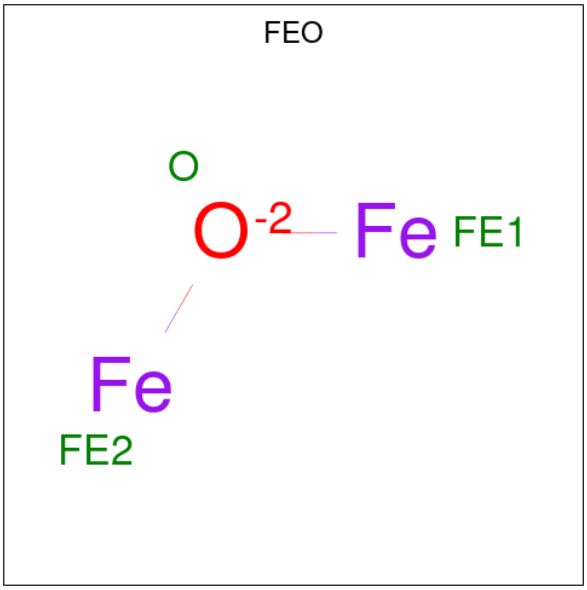
Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	HIS	-	expression tag	UNP Q9WZL4
B	-4	HIS	-	expression tag	UNP Q9WZL4
B	-3	HIS	-	expression tag	UNP Q9WZL4
B	-2	HIS	-	expression tag	UNP Q9WZL4
B	-1	HIS	-	expression tag	UNP Q9WZL4
B	0	HIS	-	expression tag	UNP Q9WZL4
B	1	MSE	MET	modified residue	UNP Q9WZL4
B	146	MSE	MET	modified residue	UNP Q9WZL4
B	156	MSE	MET	modified residue	UNP Q9WZL4
B	263	MSE	MET	modified residue	UNP Q9WZL4
B	271	MSE	MET	modified residue	UNP Q9WZL4
B	326	MSE	MET	modified residue	UNP Q9WZL4
B	381	MSE	MET	modified residue	UNP Q9WZL4

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

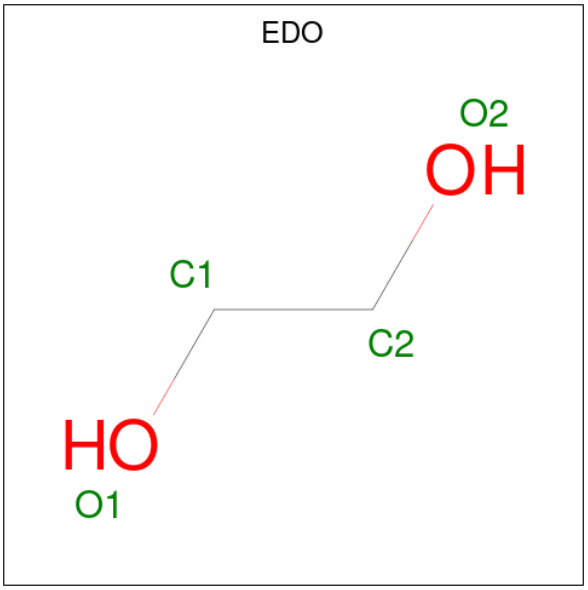
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Cl 2 2	0	0
2	B	1	Total Cl 1 1	0	0

- Molecule 3 is MU-OXO-DIIRON (CCD ID: FEO) (formula: Fe_2O).



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

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 5 is water.

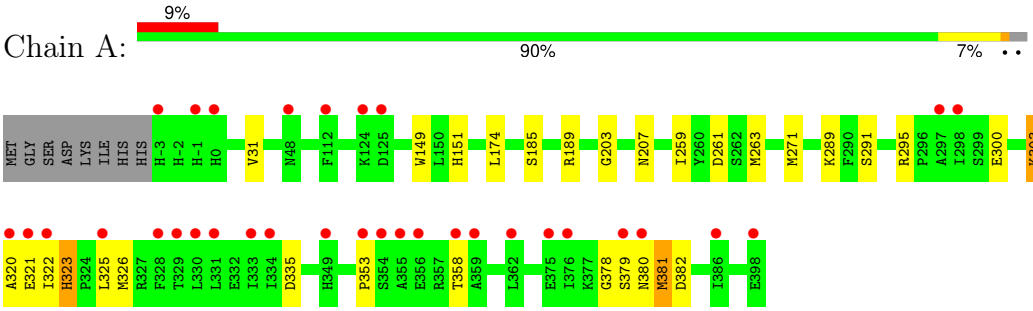
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	237	Total O 237 237	0	0
5	B	205	Total O 205 205	0	0

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.

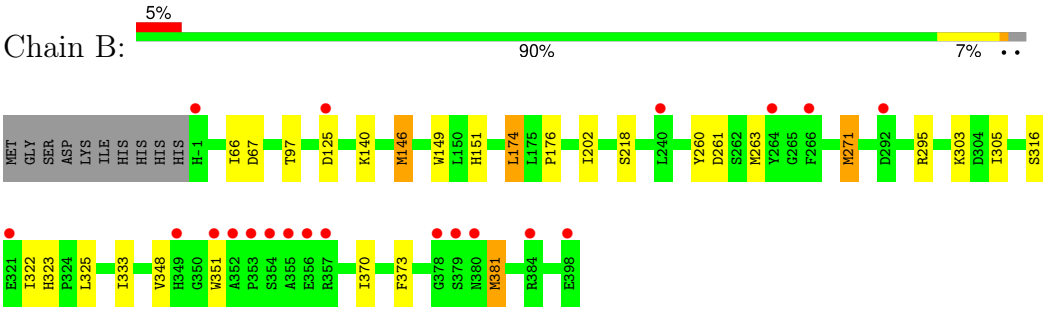
• Molecule 1: Flavoprotein

Chain A:



• Molecule 1: Flavoprotein

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	55.24Å 95.83Å 90.13Å 90.00° 95.43° 90.00°	Depositor
Resolution (Å)	48.92 – 1.80 48.92 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.92-1.80) 99.9 (48.92-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$< I/\sigma(I) >$ [1]	2.81 (at 1.81Å)	Xtriage
Refinement program	REFMAC (5.2.0005)	Depositor
R, R_{free}	0.147 , 0.181 0.160 , 0.192	Depositor DCC
R_{free} test set	4306 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	22.0	Xtriage
Anisotropy	0.246	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 47.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	7037	wwPDB-VP
Average B, all atoms (Å^2)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.70% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: EDO, FEO, CL

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	0.91	2/3404 (0.1%)	0.86	7/4609 (0.2%)
1	B	0.86	3/3391 (0.1%)	0.86	3/4593 (0.1%)
All	All	0.89	5/6795 (0.1%)	0.86	10/9202 (0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	271	MSE	SE-CE	-6.92	1.74	1.95
1	B	146	MSE	SE-CE	6.34	2.14	1.95
1	B	271	MSE	SE-CE	-5.54	1.78	1.95
1	B	381	MSE	SE-CE	5.29	2.11	1.95
1	A	381	MSE	SE-CE	5.07	2.10	1.95

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	203	GLY	N-CA-C	5.86	119.98	112.83
1	A	323[A]	HIS	CA-C-N	-5.55	113.19	118.97
1	A	323[A]	HIS	C-N-CA	-5.55	113.19	118.97
1	A	323[B]	HIS	CA-C-N	-5.55	113.19	118.97
1	A	323[B]	HIS	C-N-CA	-5.55	113.19	118.97
1	A	263	MSE	CG-SE-CE	-5.36	87.12	98.92
1	B	271	MSE	CG-SE-CE	-5.35	87.15	98.92
1	B	351	TRP	N-CA-C	-5.35	104.33	111.87
1	B	263	MSE	CG-SE-CE	-5.22	87.43	98.92
1	A	271	MSE	CG-SE-CE	-5.16	87.58	98.92

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	3295	0	3256	27	0
1	B	3279	0	3255	19	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
4	A	8	0	12	0	0
4	B	4	0	6	0	0
5	A	237	0	0	4	0
5	B	205	0	0	3	0
All	All	7037	0	6529	44	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 (44) 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:146:MSE:SE	1:B:146:MSE:CE	2.14	1.44
1:A:318[B]:TYR:HB2	1:A:319[B]:GLU:OE1	1.46	1.14
1:A:379:SER:O	1:A:380:ASN:OD1	1.90	0.88
1:A:261:ASP:OD2	1:A:323[A]:HIS:CB	2.26	0.83
1:A:318[B]:TYR:CB	1:A:319[B]:GLU:OE1	2.24	0.81
1:A:261:ASP:OD2	1:A:323[A]:HIS:HB3	1.80	0.80
1:A:320[A]:ALA:HA	1:A:353:PRO:HD2	1.72	0.71
1:A:261:ASP:OD2	1:A:323[B]:HIS:CD2	2.49	0.65
1:B:67[B]:ASP:OD1	5:B:477:HOH:O	2.14	0.64
1:B:322[B]:ILE:O	5:B:504:HOH:O	2.12	0.64
1:A:322[A]:ILE:HD12	1:A:326[A]:MSE:HG3	1.82	0.61
1:A:321[A]:GLU:HB3	5:A:558:HOH:O	2.01	0.60
1:A:323[B]:HIS:CD2	1:A:326[B]:MSE:H	2.21	0.58
1:B:261:ASP:OD1	1:B:316[B]:SER:OG	2.11	0.57
1:A:207[B]:ASN:ND2	5:A:485:HOH:O	2.37	0.57
1:A:261:ASP:OD2	1:A:323[A]:HIS:CG	2.58	0.56
1:A:185:SER:OG	1:A:189:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:317[B]:THR:OG1	1:B:348:VAL:O	2.27	0.52
1:B:174:LEU:O	1:B:176:PRO:HD3	2.11	0.51
1:B:125:ASP:O	1:B:125:ASP:CG	2.56	0.49
1:A:323[A]:HIS:CB	5:A:501:HOH:O	2.60	0.49
1:A:31:VAL:HA	1:B:295:ARG:NH2	2.30	0.47
1:B:305[B]:ILE:CD1	1:B:333:ILE:HG12	2.45	0.46
1:A:259:ILE:HG22	1:A:326[A]:MSE:HE1	1.98	0.46
1:A:323[A]:HIS:HB3	5:A:501:HOH:O	2.15	0.46
1:B:370:ILE:HD13	1:B:373[B]:PHE:CZ	2.51	0.45
1:B:370:ILE:HG21	1:B:373[B]:PHE:CE1	2.52	0.44
1:B:140:LYS:NZ	5:B:574:HOH:O	2.51	0.44
1:B:260:TYR:CG	1:B:271:MSE:HG3	2.53	0.43
1:A:295:ARG:NH2	1:A:325:LEU:HD11	2.33	0.43
1:B:202:ILE:HG22	1:B:202:ILE:O	2.18	0.43
1:B:323[B]:HIS:CD2	1:B:325:LEU:H	2.36	0.43
1:A:300:GLU:OE1	1:A:303:LYS:NZ	2.41	0.42
1:B:149:TRP:C	1:B:151:HIS:HA	2.45	0.42
1:A:381:MSE:HG2	1:A:382:ASP:N	2.35	0.42
1:A:321[B]:GLU:CD	1:A:358:THR:HG22	2.45	0.41
1:B:66:ILE:HD11	1:B:97:THR:HA	2.03	0.41
1:A:149:TRP:C	1:A:151:HIS:HA	2.45	0.41
1:A:335:ASP:OD2	1:B:319[A]:GLU:OE1	2.38	0.41
1:A:381:MSE:HE2	1:A:381:MSE:HB3	1.96	0.41
1:A:289:LYS:HE2	1:A:291:SER:HB3	2.03	0.41
1:A:321[B]:GLU:OE1	1:A:358:THR:HG22	2.21	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	419/410 (102%)	407 (97%)	10 (2%)	2 (0%)	24 14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	B	417/410 (102%)	403 (97%)	13 (3%)	1 (0%)	43 31
All	All	836/820 (102%)	810 (97%)	23 (3%)	3 (0%)	30 19

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	174	LEU
1	A	174	LEU
1	A	378	GLY

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	354/354 (100%)	353 (100%)	1 (0%)	86 86
1	B	355/354 (100%)	352 (99%)	3 (1%)	73 70
All	All	709/708 (100%)	705 (99%)	4 (1%)	78 77

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	303	LYS
1	B	218	SER
1	B	303	LYS
1	B	381	MSE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	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)

Of 8 ligands modelled in this entry, 3 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	FEO	A	401	5,1	0,2,2	-	-	-		
3	FEO	B	400	5,1	0,2,2	-	-	-		
4	EDO	A	402	-	3,3,3	0.44	0	2,2,2	0.51	0
4	EDO	B	401	-	3,3,3	0.55	0	2,2,2	0.28	0
4	EDO	A	403	-	3,3,3	0.60	0	2,2,2	0.08	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
4	EDO	B	401	-	-	1/1/1/1	-
4	EDO	A	403	-	-	1/1/1/1	-
4	EDO	A	402	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	402	EDO	O1-C1-C2-O2
4	A	403	EDO	O1-C1-C2-O2
4	B	401	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	395/410 (96%)	0.59	35 (8%)	15	13	11, 26, 40, 52	18 (4%)
1	B	393/410 (95%)	0.54	22 (5%)	30	29	10, 26, 40, 56	22 (5%)
All	All	788/820 (96%)	0.56	57 (7%)	21	20	10, 26, 40, 56	40 (5%)

All (57) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	352	ALA	7.4
1	B	353[B]	PRO	7.1
1	A	-3	HIS	6.8
1	B	357[B]	ARG	6.6
1	A	318[A]	TYR	6.6
1	B	355[B]	ALA	6.1
1	B	354[B]	SER	4.8
1	A	356[B]	GLU	4.7
1	B	380	ASN	4.3
1	B	318[A]	TYR	4.0
1	B	398	GLU	3.9
1	B	351	TRP	3.8
1	A	355	ALA	3.6
1	A	125	ASP	3.6
1	A	320[A]	ALA	3.5
1	A	359	ALA	3.4
1	B	379	SER	3.4
1	B	264	TYR	3.3
1	A	380	ASN	3.2
1	A	0	HIS	3.1
1	B	384	ARG	3.1
1	A	358	THR	3.1
1	A	353	PRO	3.1
1	A	325	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	-1	HIS	3.0
1	A	349	HIS	3.0
1	B	349	HIS	3.0
1	A	112	PHE	2.9
1	B	356[B]	GLU	2.8
1	B	321[A]	GLU	2.8
1	A	329	THR	2.6
1	B	378	GLY	2.6
1	A	375	GLU	2.6
1	A	317[A]	THR	2.5
1	A	334	ILE	2.4
1	A	354	SER	2.4
1	A	330	LEU	2.4
1	A	328	PHE	2.3
1	B	266	PHE	2.3
1	A	298	ILE	2.3
1	A	386	ILE	2.3
1	A	331	LEU	2.3
1	A	48	ASN	2.3
1	A	362	LEU	2.3
1	B	240	LEU	2.3
1	A	297	ALA	2.2
1	A	124	LYS	2.2
1	A	398	GLU	2.2
1	A	333	ILE	2.2
1	B	125	ASP	2.2
1	A	379	SER	2.2
1	B	-1	HIS	2.1
1	A	376	ILE	2.1
1	A	322[A]	ILE	2.1
1	B	319[A]	GLU	2.1
1	B	292	ASP	2.1
1	A	321[A]	GLU	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(Å^2)	Q<0.9
4	EDO	A	403	4/4	0.68	0.23	55,56,58,61	0
4	EDO	A	402	4/4	0.78	0.21	54,55,56,56	0
4	EDO	B	401	4/4	0.79	0.18	52,57,61,64	0
3	FEO	B	400	3/3	0.92	0.17	17,17,21,36	0
3	FEO	A	401	3/3	0.93	0.13	14,14,15,31	0
2	CL	B	399	1/1	0.99	0.14	26,26,26,26	0
2	CL	A	399	1/1	0.99	0.07	21,21,21,21	0
2	CL	A	400	1/1	0.99	0.09	26,26,26,26	0

6.5 Other polymers (i)

There are no such residues in this entry.