



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 01:43 PM UTC

PDB ID : 3UZE / pdb_00003uze
Title : Crystal structure of the dengue virus serotype 3 envelope protein domain III in complex with the variable domains of Mab 4E11
Authors : Cockburn, J.J.B.; Navarro Sanchez, M.E.; Fretes, N.; Urvoas, A.; Staropoli, I.; Kikuti, C.M.; Coffey, L.L.; Arenzana Seisdedos, F.; Bedouelle, H.; Rey, F.A.
Deposited on : 2011-12-07
Resolution : 2.04 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

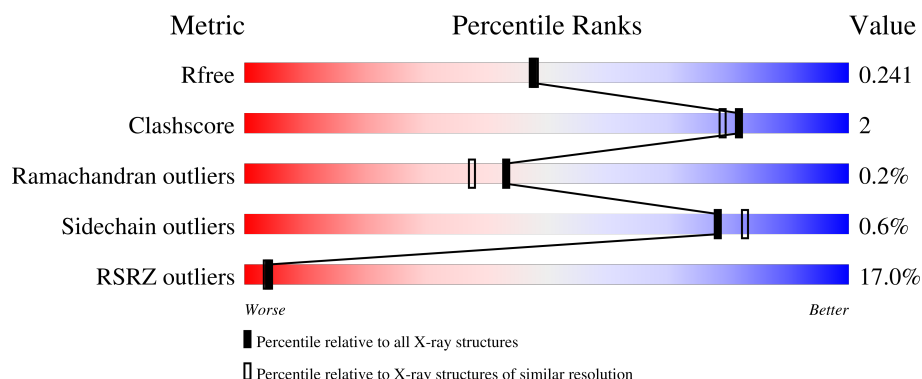
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.04 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	2260 (2.04-2.04)
Clashscore	190562	2333 (2.04-2.04)
Ramachandran outliers	187476	2318 (2.04-2.04)
Sidechain outliers	187428	2318 (2.04-2.04)
RSRZ outliers	180081	2260 (2.04-2.04)

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	253	6% 83% 8% 9%
1	B	253	8% 83% 6% 11%
2	C	139	14% 59% 9% 32%
2	D	139	37% 48% 5% 47%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 5202 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 Variable domains of murine anti-dengue Mab 4E11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	5	0
			1790	1128	306	347	9			
1	B	226	Total	C	N	O	S	0	4	0
			1759	1111	299	340	9			

- Molecule 2 is a protein called Envelope protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	94	Total	C	N	O	S	0	0	0
			730	470	123	134	3			
2	D	74	Total	C	N	O	S	0	0	0
			581	377	92	109	3			

There are 76 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	396	PRO	-	expression tag	UNP Q7TGD1
C	397	PHE	-	expression tag	UNP Q7TGD1
C	398	GLU	-	expression tag	UNP Q7TGD1
C	399	ASP	-	expression tag	UNP Q7TGD1
C	400	ASP	-	expression tag	UNP Q7TGD1
C	401	ASP	-	expression tag	UNP Q7TGD1
C	402	ASP	-	expression tag	UNP Q7TGD1
C	403	LYS	-	expression tag	UNP Q7TGD1
C	404	ALA	-	expression tag	UNP Q7TGD1
C	405	GLY	-	expression tag	UNP Q7TGD1
C	406	TRP	-	expression tag	UNP Q7TGD1
C	407	SER	-	expression tag	UNP Q7TGD1
C	408	HIS	-	expression tag	UNP Q7TGD1
C	409	PRO	-	expression tag	UNP Q7TGD1
C	410	GLN	-	expression tag	UNP Q7TGD1
C	411	PHE	-	expression tag	UNP Q7TGD1

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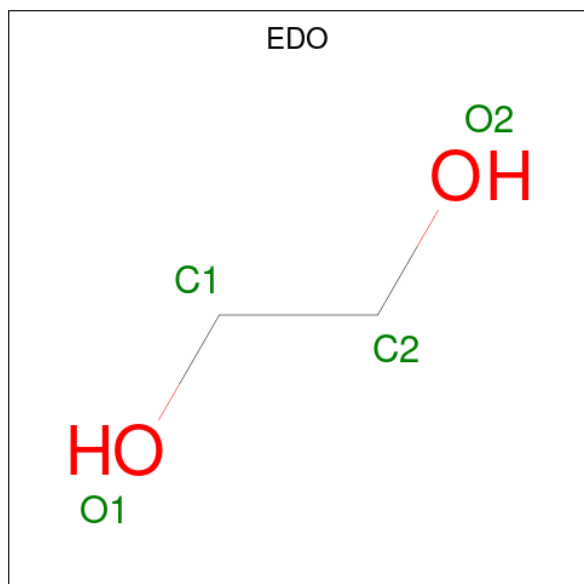
Chain	Residue	Modelled	Actual	Comment	Reference
C	412	GLU	-	expression tag	UNP Q7TGD1
C	413	LYS	-	expression tag	UNP Q7TGD1
C	414	GLY	-	expression tag	UNP Q7TGD1
C	415	GLY	-	expression tag	UNP Q7TGD1
C	416	GLY	-	expression tag	UNP Q7TGD1
C	417	SER	-	expression tag	UNP Q7TGD1
C	418	GLY	-	expression tag	UNP Q7TGD1
C	419	GLY	-	expression tag	UNP Q7TGD1
C	420	GLY	-	expression tag	UNP Q7TGD1
C	421	SER	-	expression tag	UNP Q7TGD1
C	422	GLY	-	expression tag	UNP Q7TGD1
C	423	GLY	-	expression tag	UNP Q7TGD1
C	424	GLY	-	expression tag	UNP Q7TGD1
C	425	SER	-	expression tag	UNP Q7TGD1
C	426	TRP	-	expression tag	UNP Q7TGD1
C	427	SER	-	expression tag	UNP Q7TGD1
C	428	HIS	-	expression tag	UNP Q7TGD1
C	429	PRO	-	expression tag	UNP Q7TGD1
C	430	GLN	-	expression tag	UNP Q7TGD1
C	431	PHE	-	expression tag	UNP Q7TGD1
C	432	GLU	-	expression tag	UNP Q7TGD1
C	433	LYS	-	expression tag	UNP Q7TGD1
D	396	PRO	-	expression tag	UNP Q7TGD1
D	397	PHE	-	expression tag	UNP Q7TGD1
D	398	GLU	-	expression tag	UNP Q7TGD1
D	399	ASP	-	expression tag	UNP Q7TGD1
D	400	ASP	-	expression tag	UNP Q7TGD1
D	401	ASP	-	expression tag	UNP Q7TGD1
D	402	ASP	-	expression tag	UNP Q7TGD1
D	403	LYS	-	expression tag	UNP Q7TGD1
D	404	ALA	-	expression tag	UNP Q7TGD1
D	405	GLY	-	expression tag	UNP Q7TGD1
D	406	TRP	-	expression tag	UNP Q7TGD1
D	407	SER	-	expression tag	UNP Q7TGD1
D	408	HIS	-	expression tag	UNP Q7TGD1
D	409	PRO	-	expression tag	UNP Q7TGD1
D	410	GLN	-	expression tag	UNP Q7TGD1
D	411	PHE	-	expression tag	UNP Q7TGD1
D	412	GLU	-	expression tag	UNP Q7TGD1
D	413	LYS	-	expression tag	UNP Q7TGD1
D	414	GLY	-	expression tag	UNP Q7TGD1
D	415	GLY	-	expression tag	UNP Q7TGD1

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Chain	Residue	Modelled	Actual	Comment	Reference
D	416	GLY	-	expression tag	UNP Q7TGD1
D	417	SER	-	expression tag	UNP Q7TGD1
D	418	GLY	-	expression tag	UNP Q7TGD1
D	419	GLY	-	expression tag	UNP Q7TGD1
D	420	GLY	-	expression tag	UNP Q7TGD1
D	421	SER	-	expression tag	UNP Q7TGD1
D	422	GLY	-	expression tag	UNP Q7TGD1
D	423	GLY	-	expression tag	UNP Q7TGD1
D	424	GLY	-	expression tag	UNP Q7TGD1
D	425	SER	-	expression tag	UNP Q7TGD1
D	426	TRP	-	expression tag	UNP Q7TGD1
D	427	SER	-	expression tag	UNP Q7TGD1
D	428	HIS	-	expression tag	UNP Q7TGD1
D	429	PRO	-	expression tag	UNP Q7TGD1
D	430	GLN	-	expression tag	UNP Q7TGD1
D	431	PHE	-	expression tag	UNP Q7TGD1
D	432	GLU	-	expression tag	UNP Q7TGD1
D	433	LYS	-	expression tag	UNP Q7TGD1

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



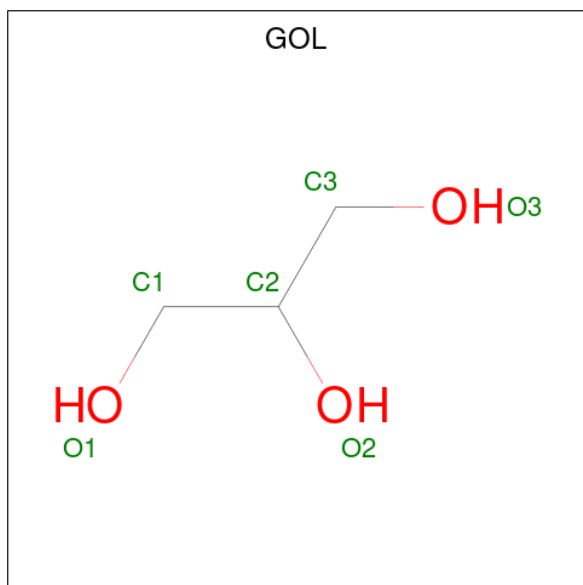
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		

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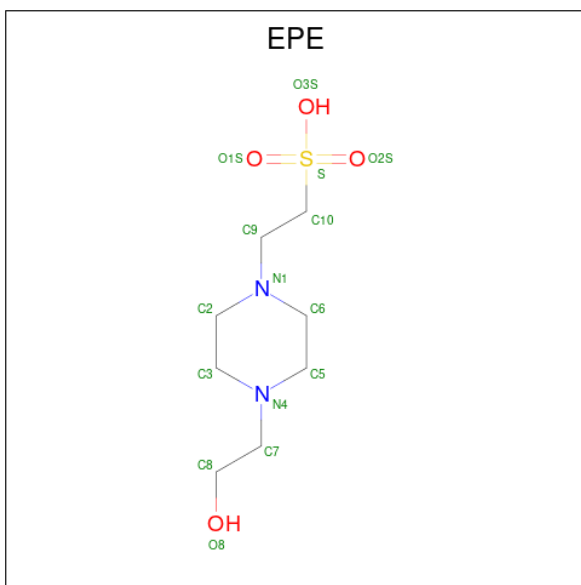
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	C	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 5 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (CCD ID: EPE) (formula: $C_8H_{18}N_2O_4S$).

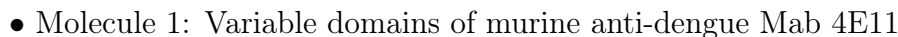


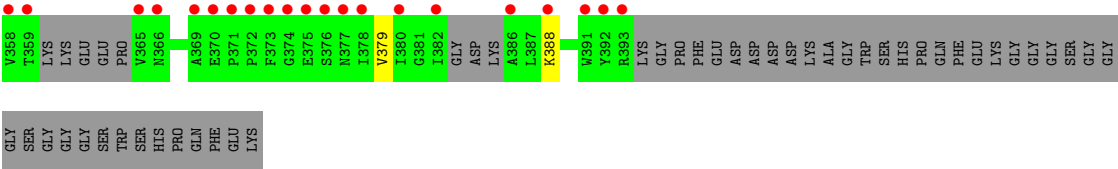
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	B	1	Total	C	N	O	S	0	0
			15	8	2	4	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	144	Total	O	0	0
			144	144		
6	B	90	Total	O	0	0
			90	90		
6	C	35	Total	O	0	0
			35	35		
6	D	8	Total	O	0	0
			8	8		

- Molecule 1: Variable domains of murine anti-dengue Mab 4E11





GLY
SER
GLY
GLY
GLY
SER
TRP
SER
HIS
PRO
GLN
PHE
GLU
LYS

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.05Å 74.67Å 86.89Å 90.00° 104.49° 90.00°	Depositor
Resolution (Å)	40.80 – 2.04 40.80 – 2.04	Depositor EDS
% Data completeness (in resolution range)	94.6 (40.80-2.04) 94.6 (40.80-2.04)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.63 (at 2.03Å)	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.9.3, BUSTER 2.9.3	Depositor
R, R_{free}	0.218 , 0.234 0.224 , 0.241	Depositor DCC
R_{free} test set	1986 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å ²)	27.8	Xtriage
Anisotropy	0.254	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5202	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.61% 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: EPE, GOL, 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	0.63	0/1846	1.02	4/2504 (0.2%)
1	B	0.64	0/1811	1.04	3/2457 (0.1%)
2	C	0.67	0/744	1.05	1/1001 (0.1%)
2	D	0.69	0/588	0.96	0/793
All	All	0.65	0/4989	1.02	8/6755 (0.1%)

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	100	GLY	N-CA-C	6.08	118.22	112.08
1	A	100	GLY	N-CA-C	5.99	119.03	111.85
1	A	232	TRP	CA-C-N	5.34	128.35	120.82
1	A	232	TRP	C-N-CA	5.34	128.35	120.82
1	A	62	ASP	N-CA-C	-5.21	103.22	109.83

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	1790	0	1746	9	0
1	B	1759	0	1718	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	730	0	740	5	0
2	D	581	0	593	3	0
3	A	8	0	12	0	0
3	B	8	0	12	0	0
3	C	4	0	6	0	0
4	A	18	0	24	1	0
4	B	12	0	16	1	0
5	B	15	0	18	0	0
6	A	144	0	0	0	0
6	B	90	0	0	0	0
6	C	35	0	0	0	0
6	D	8	0	0	0	0
All	All	5202	0	4885	24	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 2.

The worst 5 of 24 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:134:LEU:HD12	1:A:159:GLU:HB2	1.80	0.62
1:B:134:LEU:HD12	1:B:159:GLU:HB2	1.81	0.61
4:A:258:GOL:H31	1:B:20:ARG:HB2	1.84	0.59
1:B:173:GLN:HB2	1:B:183:LEU:HD11	1.91	0.52
2:C:319:THR:HG22	2:C:370:GLU:HB3	1.92	0.51

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	230/253 (91%)	224 (97%)	6 (3%)	0	100	100
1	B	226/253 (89%)	219 (97%)	6 (3%)	1 (0%)	30	22
2	C	88/139 (63%)	86 (98%)	2 (2%)	0	100	100
2	D	64/139 (46%)	63 (98%)	1 (2%)	0	100	100
All	All	608/784 (78%)	592 (97%)	15 (2%)	1 (0%)	43	37

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	204	ARG

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	194/201 (96%)	194 (100%)	0	100	100
1	B	190/201 (94%)	190 (100%)	0	100	100
2	C	79/112 (70%)	77 (98%)	2 (2%)	42	39
2	D	66/112 (59%)	65 (98%)	1 (2%)	57	58
All	All	529/626 (84%)	526 (99%)	3 (1%)	78	83

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	299	TYR
2	C	382	ILE
2	D	304	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	160	ASN

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Mol	Chain	Res	Type
1	B	44	GLN
2	C	377	ASN
2	C	390	ASN
2	D	390	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](#)

11 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	$\# Z > 2$
4	GOL	A	256	-	5,5,5	0.42	0	5,5,5	0.20	0
3	EDO	A	255	-	3,3,3	0.45	0	2,2,2	0.28	0
3	EDO	B	256	-	3,3,3	0.43	0	2,2,2	0.39	0
3	EDO	B	257	-	3,3,3	0.41	0	2,2,2	0.42	0
4	GOL	A	257	-	5,5,5	0.37	0	5,5,5	0.59	0
3	EDO	C	1	-	3,3,3	0.43	0	2,2,2	0.35	0
4	GOL	B	255	-	5,5,5	0.31	0	5,5,5	0.39	0
4	GOL	B	258	-	5,5,5	0.35	0	5,5,5	0.23	0
4	GOL	A	258	-	5,5,5	0.45	0	5,5,5	0.26	0
3	EDO	A	254	-	3,3,3	0.44	0	2,2,2	0.34	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	EPE	B	254	-	15,15,15	1.01	1 (6%)	19,20,20	2.08	8 (42%)

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	GOL	A	256	-	-	0/4/4/4	-
3	EDO	A	255	-	-	0/1/1/1	-
3	EDO	B	256	-	-	0/1/1/1	-
3	EDO	B	257	-	-	0/1/1/1	-
4	GOL	A	257	-	-	2/4/4/4	-
3	EDO	C	1	-	-	0/1/1/1	-
4	GOL	B	255	-	-	2/4/4/4	-
4	GOL	B	258	-	-	2/4/4/4	-
4	GOL	A	258	-	-	0/4/4/4	-
3	EDO	A	254	-	-	0/1/1/1	-
5	EPE	B	254	-	-	1/9/19/19	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	254	EPE	C10-S	2.29	1.80	1.77

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	254	EPE	O1S-S-C10	3.69	112.31	106.73
5	B	254	EPE	O3S-S-O2S	-3.58	102.45	111.40
5	B	254	EPE	O2S-S-C10	3.08	111.38	106.73
5	B	254	EPE	O3S-S-O1S	-2.87	104.22	111.40
5	B	254	EPE	C9-N1-C2	-2.67	104.12	111.24

There are no chirality outliers.

5 of 7 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	257	GOL	O1-C1-C2-C3
4	B	255	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
4	B	258	GOL	O1-C1-C2-C3
4	A	257	GOL	O1-C1-C2-O2
4	B	255	GOL	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	258	GOL	1	0
4	A	258	GOL	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	229/253 (90%)	0.37	15 (6%) 24 24	12, 26, 46, 78	5 (2%)
1	B	226/253 (89%)	0.76	21 (9%) 14 14	17, 33, 54, 85	4 (1%)
2	C	94/139 (67%)	1.16	19 (20%) 3 2	22, 34, 59, 88	0
2	D	74/139 (53%)	2.68	51 (68%) 0 0	39, 61, 88, 104	0
All	All	623/784 (79%)	0.91	106 (17%) 4 4	12, 33, 67, 104	9 (1%)

The worst 5 of 106 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	303	LEU	8.0
2	D	359	THR	6.9
2	D	382	ILE	6.9
2	C	397	PHE	6.4
2	D	365	VAL	5.6

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
3	EDO	B	256	4/4	0.64	0.19	66,68,70,71	0
4	GOL	B	258	6/6	0.69	0.28	73,74,74,75	0
3	EDO	A	254	4/4	0.71	0.19	35,37,39,39	0
3	EDO	C	1	4/4	0.74	0.26	52,54,55,57	0
4	GOL	A	258	6/6	0.75	0.19	47,48,48,49	0
3	EDO	A	255	4/4	0.77	0.21	39,40,41,43	0
3	EDO	B	257	4/4	0.82	0.16	42,44,46,47	0
4	GOL	A	257	6/6	0.84	0.15	31,33,34,34	0
4	GOL	A	256	6/6	0.86	0.13	55,55,55,56	0
4	GOL	B	255	6/6	0.88	0.12	36,36,37,37	0
5	EPE	B	254	15/15	0.88	0.19	48,50,52,55	0

6.5 Other polymers

There are no such residues in this entry.