



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 18, 2026 – 12:10 PM UTC

PDB ID : 2AYE / pdb_00002aye
Title : Crystal structure of the unliganded E2 DNA Binding Domain from HPV6a
Authors : Hooley, E.; Brady, R.L.; Gaston, K.
Deposited on : 2005-09-07
Resolution : 2.30 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

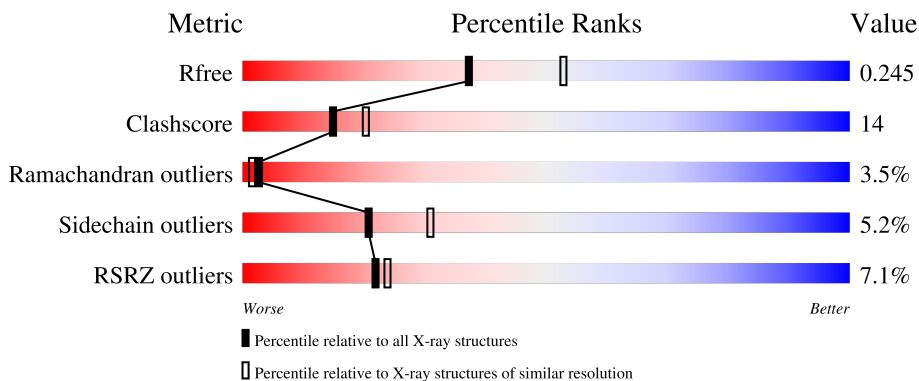
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	87	
1	B	87	
1	C	87	
1	D	87	
1	E	87	

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Mol	Chain	Length	Quality of chain
1	F	87	

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	SO4	F	207	-	-	X	-
3	GOL	D	367	-	-	X	-
3	GOL	F	367	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4571 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.

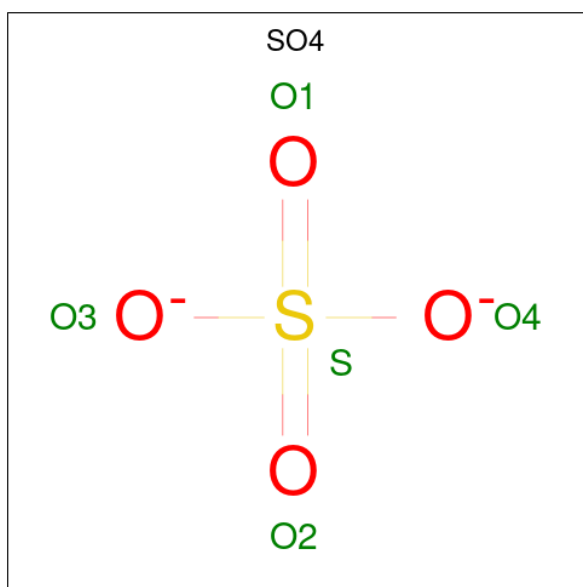
- Molecule 1 is a protein called Regulatory protein E2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	86	716	460	133	119	4	0	1	0
1	B	87	728	467	135	122	4	0	2	0
1	C	87	722	463	134	121	4	0	1	0
1	D	87	722	463	134	121	4	0	1	0
1	E	87	729	468	136	121	4	0	2	0
1	F	86	716	460	133	119	4	2	1	0

There are 6 discrepancies between the modelled and reference sequences:

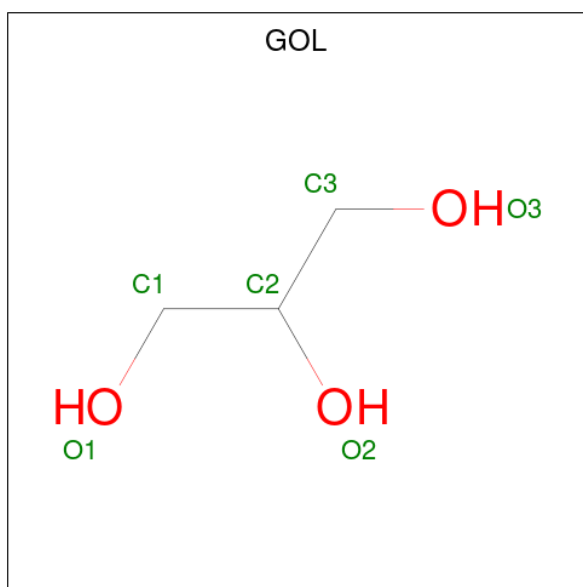
Chain	Residue	Modelled	Actual	Comment	Reference
A	361	MET	LEU	variant	UNP Q84294
B	361	MET	LEU	variant	UNP Q84294
C	361	MET	LEU	variant	UNP Q84294
D	361	MET	LEU	variant	UNP Q84294
E	361	MET	LEU	variant	UNP Q84294
F	361	MET	LEU	variant	UNP Q84294

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total O S 5 4 1	0	0
2	A	1	Total O S 5 4 1	0	0
2	A	1	Total O S 5 4 1	0	0
2	B	1	Total O S 5 4 1	0	0
2	C	1	Total O S 5 4 1	0	0
2	C	1	Total O S 5 4 1	0	0
2	C	1	Total O S 5 4 1	0	0
2	D	1	Total O S 5 4 1	0	0
2	D	1	Total O S 5 4 1	0	0
2	E	1	Total O S 5 4 1	0	0
2	F	1	Total O S 5 4 1	0	0
2	F	1	Total O S 5 4 1	0	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0
3	F	1	Total C O 6 3 3	0	0

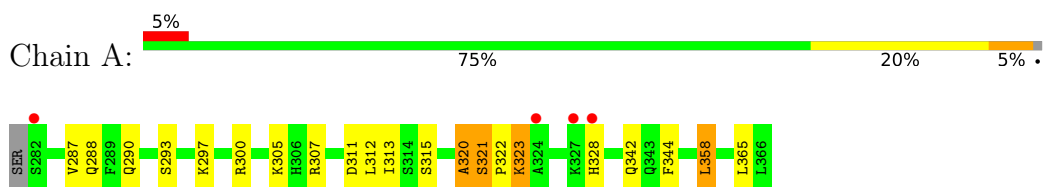
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	26	Total O 26 26	0	0
4	B	29	Total O 29 29	0	0
4	C	28	Total O 28 28	0	0
4	D	27	Total O 27 27	0	0
4	E	11	Total O 11 11	0	0
4	F	27	Total O 27 27	0	0

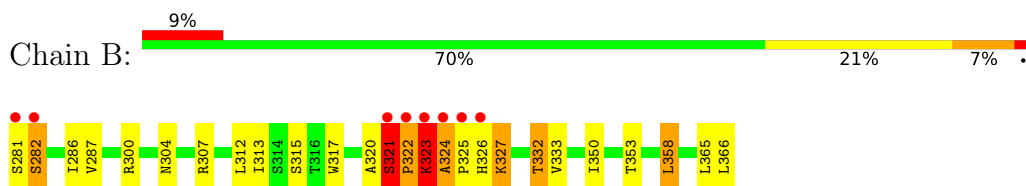
3 Residue-property plots [i](#)

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.

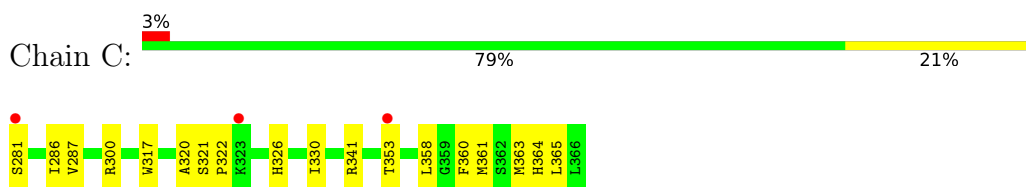
- Molecule 1: Regulatory protein E2



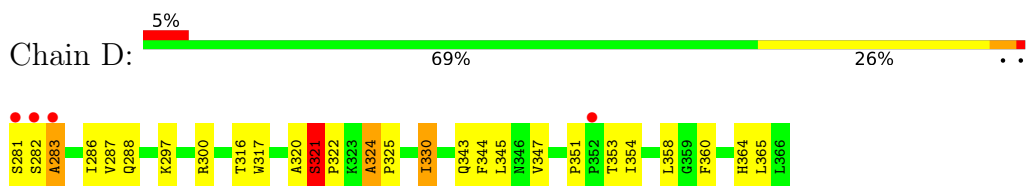
- Molecule 1: Regulatory protein E2



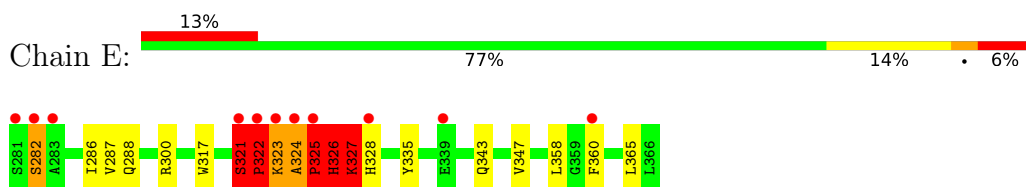
- Molecule 1: Regulatory protein E2



- Molecule 1: Regulatory protein E2

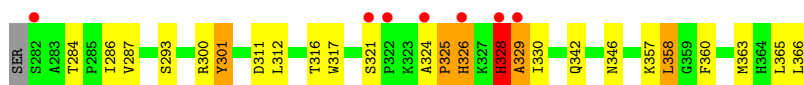


- Molecule 1: Regulatory protein E2



- Molecule 1: Regulatory protein E2

Chain F:  8% 70% 22% 6% ..



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	97.77Å 106.89Å 74.94Å 90.00° 121.68° 90.00°	Depositor
Resolution (Å)	65.65 – 2.30 65.65 – 2.30	Depositor EDS
% Data completeness (in resolution range)	97.0 (65.65-2.30) 97.0 (65.65-2.30)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.80 (at 2.30Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.185 , 0.254 0.180 , 0.245	Depositor DCC
R_{free} test set	1445 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	39.5	Xtrriage
Anisotropy	0.499	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 63.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4571	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.91% 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, SO4

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	1.25	0/739	1.12	0/999
1	B	1.20	1/754 (0.1%)	1.32	3/1019 (0.3%)
1	C	1.22	0/745	1.10	0/1007
1	D	1.03	1/745 (0.1%)	1.19	5/1007 (0.5%)
1	E	1.03	0/756	1.34	4/1022 (0.4%)
1	F	1.13	0/739	1.28	6/999 (0.6%)
All	All	1.15	2/4478 (0.0%)	1.23	18/6053 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	D	0	1
1	E	0	2
1	F	1	1
All	All	1	5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	350	ILE	CA-C	5.39	1.57	1.53
1	D	330	ILE	CA-CB	5.27	1.64	1.55

The worst 5 of 18 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	321	SER	CA-C-N	16.79	140.83	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	321	SER	C-N-CA	16.79	140.83	119.84
1	B	321	SER	CA-C-N	-13.73	102.68	119.84
1	B	321	SER	C-N-CA	-13.73	102.68	119.84
1	F	357	LYS	CG-CD-CE	11.62	138.03	111.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	F	328	HIS	CA

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	320	ALA	Peptide
1	D	320	ALA	Peptide
1	E	321	SER	Peptide
1	E	325	PRO	Peptide
1	F	328	HIS	Peptide

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	716	0	710	29	0
1	B	728	0	722	27	0
1	C	722	0	715	23	0
1	D	722	0	715	29	0
1	E	729	0	722	18	0
1	F	716	0	710	25	0
2	A	15	0	0	1	0
2	B	5	0	0	0	0
2	C	15	0	0	1	0
2	D	10	0	0	1	0
2	E	5	0	0	1	0
2	F	10	0	0	2	0
3	B	18	0	24	2	0
3	D	6	0	8	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	F	6	0	8	4	0
4	A	26	0	0	0	0
4	B	29	0	0	3	0
4	C	28	0	0	3	0
4	D	27	0	0	1	1
4	E	11	0	0	0	0
4	F	27	0	0	2	1
All	All	4571	0	4334	121	1

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 14.

The worst 5 of 121 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:C:281:SER:HB3	4:C:84:HOH:O	1.49	1.11
1:A:321:SER:HB3	1:A:322:PRO:HD3	1.15	1.10
1:A:321:SER:HB3	1:A:322:PRO:CD	1.85	1.07
1:A:321:SER:CB	1:A:322:PRO:HD3	1.83	1.07
1:F:300:ARG:NH2	2:F:207:SO4:O3	1.88	1.07

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:97:HOH:O	4:F:34:HOH:O[3_455]	2.13	0.07

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	84/87 (97%)	80 (95%)	3 (4%)	1 (1%)	10	12
1	B	86/87 (99%)	78 (91%)	3 (4%)	5 (6%)	1	0
1	C	85/87 (98%)	80 (94%)	5 (6%)	0	100	100
1	D	85/87 (98%)	80 (94%)	2 (2%)	3 (4%)	3	1
1	E	86/87 (99%)	75 (87%)	6 (7%)	5 (6%)	1	0
1	F	84/87 (97%)	74 (88%)	6 (7%)	4 (5%)	2	1
All	All	510/522 (98%)	467 (92%)	25 (5%)	18 (4%)	3	1

5 of 18 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	321	SER
1	B	321	SER
1	B	324	ALA
1	B	325	PRO
1	D	324	ALA

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	80/81 (99%)	74 (92%)	6 (8%)	12	17
1	B	82/81 (101%)	74 (90%)	8 (10%)	7	10
1	C	81/81 (100%)	80 (99%)	1 (1%)	63	79
1	D	81/81 (100%)	80 (99%)	1 (1%)	63	79
1	E	82/81 (101%)	76 (93%)	6 (7%)	13	18
1	F	80/81 (99%)	77 (96%)	3 (4%)	29	44
All	All	486/486 (100%)	461 (95%)	25 (5%)	21	32

5 of 25 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	353	THR

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Mol	Chain	Res	Type
1	E	288	GLN
1	F	358	LEU
1	E	282	SER
1	E	322	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 24 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	346	ASN
1	E	288	GLN
1	D	364	HIS
1	E	306	HIS
1	C	288	GLN

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](#)

17 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
3	GOL	F	367	-	5,5,5	0.54	0	5,5,5	0.63	0
3	GOL	B	367	-	5,5,5	0.47	0	5,5,5	0.47	0
2	SO4	C	209	-	4,4,4	0.29	0	6,6,6	1.06	0
2	SO4	D	205	-	4,4,4	0.34	0	6,6,6	0.37	0
2	SO4	E	203	-	4,4,4	0.30	0	6,6,6	0.41	0
2	SO4	B	204	-	4,4,4	0.33	0	6,6,6	0.31	0
2	SO4	F	207	-	4,4,4	0.30	0	6,6,6	0.25	0
2	SO4	D	201	-	4,4,4	0.31	0	6,6,6	0.41	0
2	SO4	A	206	-	4,4,4	0.31	0	6,6,6	0.21	0
2	SO4	C	208	-	4,4,4	0.29	0	6,6,6	1.17	0
2	SO4	A	202	-	4,4,4	0.31	0	6,6,6	0.56	0
2	SO4	C	211	-	4,4,4	0.25	0	6,6,6	0.41	0
2	SO4	F	212	-	4,4,4	0.21	0	6,6,6	1.08	1 (16%)
3	GOL	B	369	-	5,5,5	0.42	0	5,5,5	0.36	0
3	GOL	B	368	-	5,5,5	0.84	0	5,5,5	1.13	0
3	GOL	D	367	-	5,5,5	0.90	0	5,5,5	1.87	1 (20%)
2	SO4	A	210	-	4,4,4	0.25	0	6,6,6	0.68	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	GOL	F	367	-	-	2/4/4/4	-
3	GOL	B	367	-	-	4/4/4/4	-
3	GOL	B	369	-	-	4/4/4/4	-
3	GOL	B	368	-	-	0/4/4/4	-
3	GOL	D	367	-	-	3/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	367	GOL	O3-C3-C2	3.42	125.77	110.38
2	F	212	SO4	O3-S-O2	-2.03	98.92	109.56

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	367	GOL	O1-C1-C2-O2
3	B	367	GOL	C1-C2-C3-O3
3	B	369	GOL	C1-C2-C3-O3
3	D	367	GOL	O1-C1-C2-C3
3	B	367	GOL	O1-C1-C2-C3

There are no ring outliers.

9 monomers are involved in 16 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	367	GOL	4	0
2	E	203	SO4	1	0
2	F	207	SO4	2	0
2	D	201	SO4	1	0
2	C	208	SO4	1	0
2	A	202	SO4	1	0
3	B	369	GOL	1	0
3	B	368	GOL	1	0
3	D	367	GOL	4	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	86/87 (98%)	-0.24	4 (4%) 36 38	9, 18, 28, 33	16 (18%)
1	B	87/87 (100%)	0.04	8 (9%) 14 16	8, 19, 32, 49	23 (26%)
1	C	87/87 (100%)	-0.01	3 (3%) 48 50	10, 20, 33, 41	16 (18%)
1	D	87/87 (100%)	0.19	4 (4%) 37 39	18, 27, 38, 51	12 (13%)
1	E	87/87 (100%)	0.79	11 (12%) 8 9	14, 30, 41, 54	17 (19%)
1	F	86/87 (98%)	0.20	7 (8%) 18 19	13, 22, 33, 48	20 (23%)
All	All	520/522 (99%)	0.16	37 (7%) 22 24	8, 23, 37, 54	104 (20%)

The worst 5 of 37 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	324	ALA	15.1
1	E	328[A]	HIS	7.3
1	A	327	LYS	4.9
1	F	328	HIS	4.2
1	B	321	SER	4.2

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
2	SO4	A	206	5/5	0.79	0.15	86,87,87,88	0
3	GOL	F	367	6/6	0.79	0.11	41,46,47,48	0
3	GOL	B	368	6/6	0.81	0.15	26,44,48,52	0
2	SO4	D	201	5/5	0.84	0.14	61,64,65,67	0
2	SO4	F	207	5/5	0.85	0.13	76,77,79,79	0
3	GOL	B	369	6/6	0.86	0.11	29,40,44,49	0
3	GOL	B	367	6/6	0.86	0.10	41,45,48,49	0
3	GOL	D	367	6/6	0.88	0.14	26,34,38,38	0
2	SO4	C	208	5/5	0.89	0.11	34,38,39,41	5
2	SO4	E	203	5/5	0.89	0.12	58,58,61,63	0
2	SO4	C	209	5/5	0.92	0.10	32,34,39,39	5
2	SO4	F	212	5/5	0.94	0.13	31,32,36,37	5
2	SO4	D	205	5/5	0.94	0.10	57,59,59,60	0
2	SO4	A	202	5/5	0.96	0.07	42,42,45,46	0
2	SO4	C	211	5/5	0.96	0.09	28,28,28,33	5
2	SO4	B	204	5/5	0.98	0.10	41,45,47,48	0
2	SO4	A	210	5/5	0.99	0.08	24,25,28,28	5

6.5 Other polymers [i](#)

There are no such residues in this entry.