



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 15, 2023 – 02:38 PM JST

PDB ID : 6JCA
Title : Crystal structure of aminotransferase CrmG from Actinoalloteichus sp. WH1-2216-6 in I222 space group
Authors : Xu, J.; Liu, J.
Deposited on : 2019-01-28
Resolution : 2.10 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

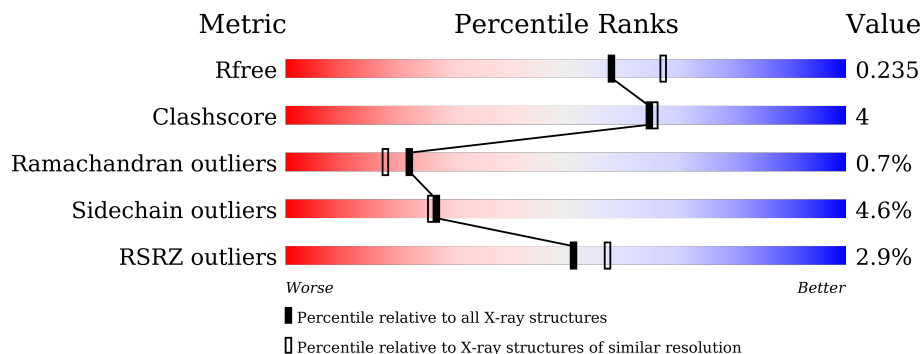
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	523	 4% 87% 8% ..
1	B	523	 2% 86% 11% ..

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
3	CL	A	603	-	-	X	-

2 Entry composition [i](#)

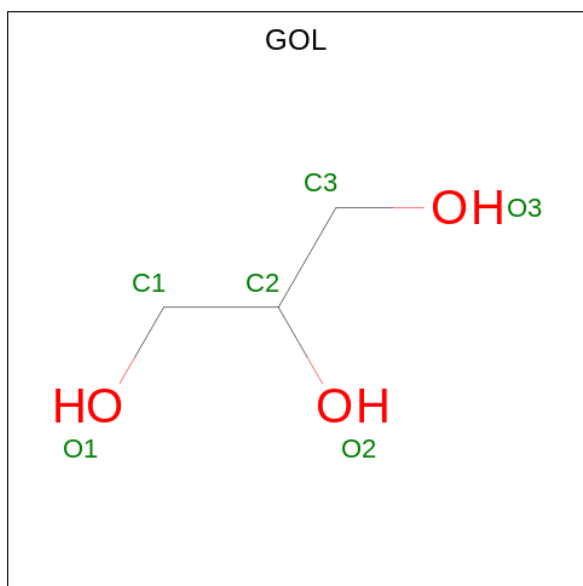
There are 5 unique types of molecules in this entry. The entry contains 8194 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CrmG.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	505	Total 3879	C 2424	N 702	O 742	S 11	0	0	0
1	B	514	Total 3959	C 2471	N 718	O 759	S 11	0	0	0

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

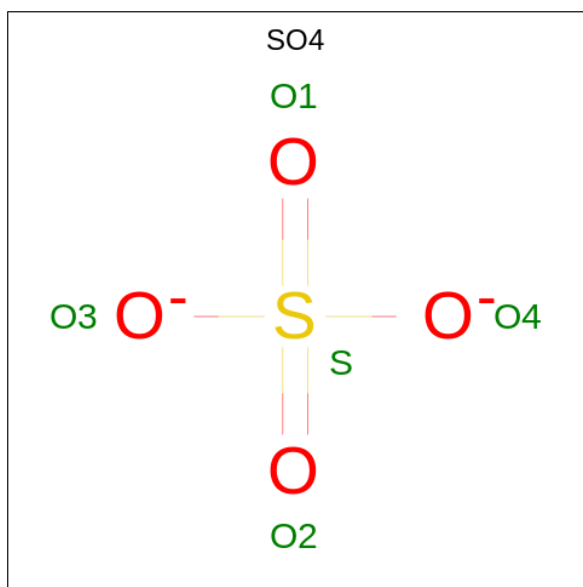


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	Total 6	C 3	O 3	0	0
2	B	1	Total 6	C 3	O 3	0	0

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	3	Total Cl 3 3	0	0
3	B	1	Total Cl 1 1	0	0

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total O S 5 4 1	0	0
4	B	1	Total O S 5 4 1	0	0

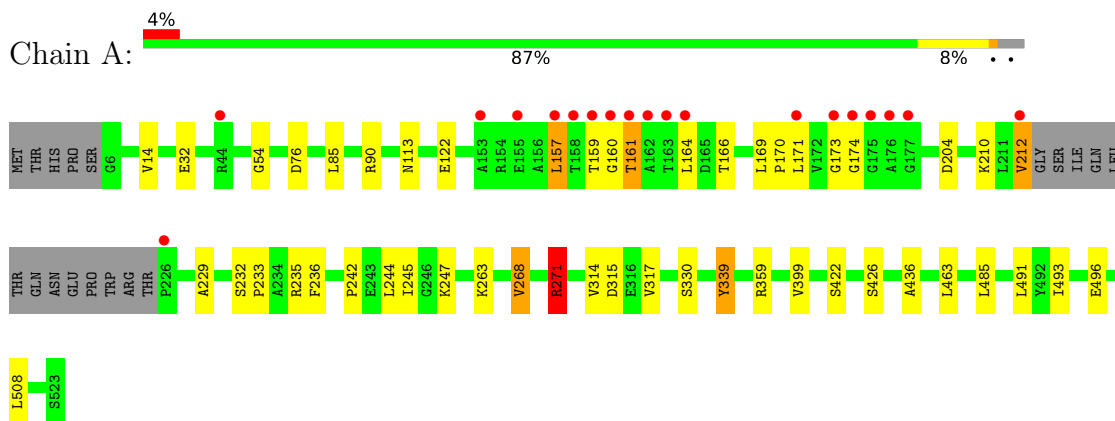
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	159	Total O 159 159	0	0
5	B	171	Total O 171 171	0	0

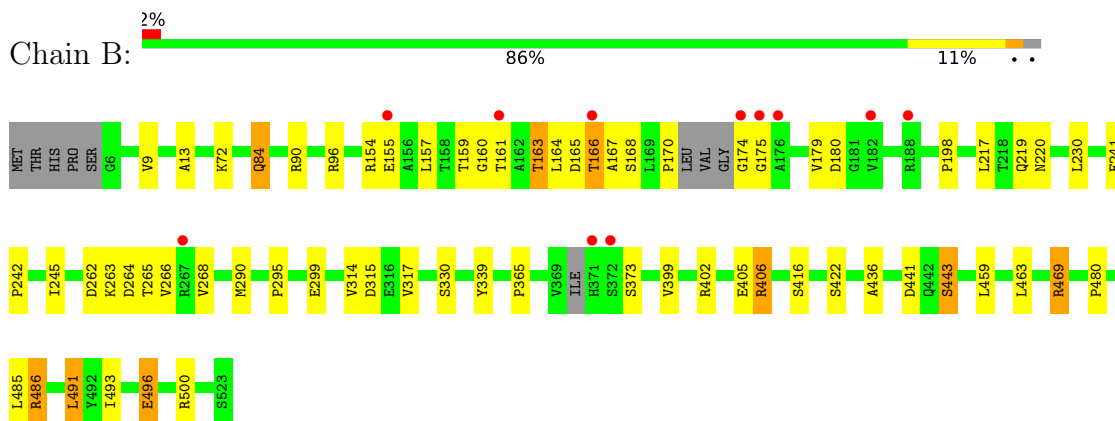
3 Residue-property plots [i](#)

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: CrmG



- Molecule 1: CrmG



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	115.09Å 125.22Å 155.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 2.10 62.61 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.0 (40.00-2.10) 99.0 (62.61-2.10)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.16 (at 2.10Å)	Xtrriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.186 , 0.228 0.195 , 0.235	Depositor DCC
R_{free} test set	3153 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	26.8	Xtrriage
Anisotropy	0.462	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 42.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8194	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.83% 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: SO4, GOL, 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	0.72	0/3943	0.87	4/5336 (0.1%)
1	B	0.73	0/4025	0.87	5/5448 (0.1%)
All	All	0.72	0/7968	0.87	9/10784 (0.1%)

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

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	90	ARG	NE-CZ-NH1	-7.27	116.67	120.30
1	B	406	ARG	NE-CZ-NH2	-6.44	117.08	120.30
1	B	469	ARG	NE-CZ-NH2	6.37	123.48	120.30
1	B	469	ARG	NE-CZ-NH1	-6.07	117.27	120.30
1	B	406	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	A	271	ARG	CG-CD-NE	5.97	124.33	111.80
1	A	339	TYR	CB-CG-CD1	5.92	124.55	121.00
1	A	339	TYR	CB-CG-CD2	-5.42	117.75	121.00
1	B	339	TYR	CB-CG-CD1	5.40	124.24	121.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	160	GLY	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	3879	0	3858	26	0
1	B	3959	0	3924	45	0
2	A	6	0	8	0	0
2	B	6	0	8	0	0
3	A	3	0	0	2	0
3	B	1	0	0	0	0
4	B	10	0	0	0	0
5	A	159	0	0	2	0
5	B	171	0	0	2	0
All	All	8194	0	7798	64	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 4.

All (64) 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:290:MET:HE2	1:B:486:ARG:HD3	1.59	0.83
3:A:603:CL:CL	5:B:852:HOH:O	2.36	0.80
3:A:603:CL:CL	5:A:738:HOH:O	2.41	0.74
1:B:262:ASP:O	1:B:263:LYS:HG2	1.93	0.69
1:B:441:ASP:OD2	1:B:443:SER:HB2	1.94	0.68
1:A:271:ARG:HH11	1:A:271:ARG:HG2	1.60	0.67
1:B:160:GLY:O	1:B:161:THR:HG23	1.96	0.66
1:B:290:MET:CE	1:B:486:ARG:HD3	2.25	0.66
1:B:496:GLU:OE2	1:B:500:ARG:NH1	2.30	0.64
1:B:165:ASP:OD1	1:B:166:THR:N	2.34	0.61
1:B:314:VAL:HG11	1:B:330:SER:HB3	1.84	0.59
1:B:161:THR:HG22	1:B:264:ASP:HA	1.83	0.59
1:A:229:ALA:HB1	1:B:198:PRO:HD2	1.85	0.59
1:B:315:ASP:OD1	1:B:317:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:84:GLN:H	1:B:84:GLN:NE2	2.04	0.56
1:A:271:ARG:HH11	1:A:271:ARG:CG	2.19	0.56
1:A:235:ARG:HA	1:A:235:ARG:HH11	1.71	0.55
1:B:295:PRO:O	1:B:299:GLU:HG2	2.06	0.55
1:A:232:SER:OG	1:B:230:LEU:HA	2.07	0.55
1:B:405:GLU:OE2	1:B:406:ARG:HD2	2.07	0.54
1:A:315:ASP:OD1	1:A:317:VAL:HG22	2.08	0.54
1:A:314:VAL:HG11	1:A:330:SER:HB3	1.89	0.54
1:B:167:ALA:O	1:B:170:PRO:HD2	2.08	0.54
1:B:170:PRO:HD3	1:B:268:VAL:HG11	1.92	0.52
1:A:157:LEU:HD21	1:A:164:LEU:HD23	1.90	0.52
1:B:164:LEU:HD23	1:B:165:ASP:N	2.25	0.51
1:A:54:GLY:HA2	1:B:84:GLN:HE22	1.75	0.51
1:B:491:LEU:CD2	1:B:491:LEU:C	2.79	0.51
1:A:14:VAL:HG21	1:B:365:PRO:CB	2.42	0.49
1:B:165:ASP:OD1	1:B:165:ASP:C	2.52	0.48
1:B:165:ASP:OD1	1:B:166:THR:HA	2.13	0.48
1:B:160:GLY:O	1:B:161:THR:CG2	2.62	0.48
1:A:164:LEU:C	1:A:164:LEU:HD13	2.34	0.48
1:B:469:ARG:NH1	5:B:714:HOH:O	2.44	0.47
1:A:159:THR:HG1	1:A:161:THR:HG1	1.62	0.46
1:A:54:GLY:HA2	1:B:84:GLN:NE2	2.31	0.45
1:B:242:PRO:HA	1:B:245:ILE:HD12	1.98	0.45
1:B:179:VAL:HG13	1:B:180:ASP:N	2.32	0.45
1:B:491:LEU:C	1:B:491:LEU:HD23	2.37	0.45
1:A:76:ASP:OD1	1:B:72:LYS:NZ	2.35	0.45
1:B:165:ASP:OD1	1:B:166:THR:CA	2.65	0.44
1:A:436:ALA:HA	1:A:485:LEU:O	2.16	0.44
1:A:164:LEU:HD11	1:A:169:LEU:HD21	1.99	0.44
1:A:242:PRO:HA	1:A:245:ILE:HD12	2.00	0.44
1:A:229:ALA:HB1	1:B:198:PRO:CD	2.46	0.44
1:B:167:ALA:O	1:B:174:GLY:HA2	2.18	0.43
1:B:9:VAL:HG21	1:B:13:ALA:HB2	2.01	0.43
1:A:212:VAL:HG11	1:A:236:PHE:CZ	2.54	0.43
1:B:459:LEU:O	1:B:463:LEU:HG	2.18	0.42
1:B:84:GLN:H	1:B:84:GLN:HE21	1.67	0.42
1:A:169:LEU:N	1:A:170:PRO:CD	2.83	0.42
1:B:157:LEU:HD23	1:B:161:THR:O	2.20	0.42
1:B:164:LEU:CD2	1:B:166:THR:HG23	2.49	0.42
1:A:122:GLU:OE1	5:A:701:HOH:O	2.22	0.42
1:B:262:ASP:C	1:B:263:LYS:HG2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:VAL:HG13	1:A:491:LEU:HD22	2.02	0.41
1:A:463:LEU:HD22	1:A:508:LEU:HD11	2.02	0.41
1:B:436:ALA:HA	1:B:485:LEU:O	2.20	0.41
1:A:85:LEU:HD21	1:B:217:LEU:HG	2.02	0.41
1:A:171:LEU:HB2	1:A:268:VAL:CG2	2.51	0.41
1:A:14:VAL:HG21	1:B:365:PRO:HB2	2.02	0.41
1:B:163:THR:HA	1:B:266:VAL:O	2.20	0.41
1:B:263:LYS:HG3	1:B:264:ASP:H	1.85	0.40
1:B:220:ASN:O	1:B:480:PRO:HA	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	501/523 (96%)	482 (96%)	16 (3%)	3 (1%)	25	21
1	B	508/523 (97%)	490 (96%)	14 (3%)	4 (1%)	19	15
All	All	1009/1046 (96%)	972 (96%)	30 (3%)	7 (1%)	22	18

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	173	GLY
1	B	159	THR
1	B	373	SER
1	A	174	GLY
1	A	263	LYS
1	B	166	THR
1	B	175	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	405/422 (96%)	386 (95%)	19 (5%)	26	25
1	B	414/422 (98%)	395 (95%)	19 (5%)	27	26
All	All	819/844 (97%)	781 (95%)	38 (5%)	27	26

All (38) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	GLU
1	A	113	ASN
1	A	157	LEU
1	A	161	THR
1	A	166	THR
1	A	204	ASP
1	A	210	LYS
1	A	212	VAL
1	A	233	PRO
1	A	244	LEU
1	A	247	LYS
1	A	268	VAL
1	A	271	ARG
1	A	339	TYR
1	A	359	ARG
1	A	422	SER
1	A	426	SER
1	A	493	ILE
1	A	496	GLU
1	B	84	GLN
1	B	90	ARG
1	B	96	ARG
1	B	154	ARG
1	B	155	GLU
1	B	163	THR
1	B	168	SER
1	B	219	GLN

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Mol	Chain	Res	Type
1	B	241	GLU
1	B	265	THR
1	B	399	VAL
1	B	402	ARG
1	B	416	SER
1	B	422	SER
1	B	443	SER
1	B	486	ARG
1	B	491	LEU
1	B	493	ILE
1	B	496	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	124	ASN
1	B	16	ASN
1	B	34	ASN
1	B	63	ASN
1	B	84	GLN
1	B	124	ASN
1	B	353	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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
4	SO4	B	601	-	4,4,4	0.42	0	6,6,6	0.13	0
2	GOL	A	601	-	5,5,5	0.04	0	5,5,5	0.39	0
2	GOL	B	603	-	5,5,5	0.07	0	5,5,5	0.26	0
4	SO4	B	602	-	4,4,4	0.31	0	6,6,6	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GOL	A	601	-	-	2/4/4/4	-
2	GOL	B	603	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	GOL	O1-C1-C2-C3
2	B	603	GOL	C1-C2-C3-O3
2	B	603	GOL	O1-C1-C2-C3
2	A	601	GOL	O1-C1-C2-O2
2	B	603	GOL	O2-C2-C3-O3
2	B	603	GOL	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	505/523 (96%)	0.06	19 (3%) 40 46	19, 30, 60, 78	0
1	B	514/523 (98%)	-0.01	11 (2%) 63 68	19, 31, 62, 85	0
All	All	1019/1046 (97%)	0.03	30 (2%) 51 57	19, 30, 61, 85	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	164	LEU	4.6
1	B	372	SER	4.2
1	A	163	THR	3.7
1	A	153	ALA	3.3
1	A	160	GLY	3.1
1	B	175	GLY	3.0
1	B	371	HIS	3.0
1	A	212	VAL	2.8
1	A	161	THR	2.8
1	A	177	GLY	2.6
1	A	158	THR	2.6
1	A	176	ALA	2.5
1	B	182	VAL	2.5
1	A	226	PRO	2.5
1	B	267	ARG	2.5
1	A	173	GLY	2.5
1	B	166	THR	2.4
1	A	157	LEU	2.4
1	B	155	GLU	2.4
1	A	162	ALA	2.4
1	A	159	THR	2.4
1	A	174	GLY	2.4
1	A	175	GLY	2.4
1	A	171	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	188	ARG	2.2
1	A	44	ARG	2.2
1	A	155	GLU	2.1
1	B	174	GLY	2.1
1	B	161	THR	2.1
1	B	176	ALA	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 monosaccharides 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	SO4	B	602	5/5	0.85	0.21	74,89,99,102	0
3	CL	A	604	1/1	0.88	0.07	64,64,64,64	0
2	GOL	B	603	6/6	0.91	0.19	41,45,45,47	0
3	CL	A	603	1/1	0.93	0.05	68,68,68,68	0
2	GOL	A	601	6/6	0.94	0.16	35,39,41,48	0
4	SO4	B	601	5/5	0.96	0.15	48,58,62,66	0
3	CL	A	602	1/1	0.99	0.08	25,25,25,25	0
3	CL	B	604	1/1	0.99	0.10	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.