



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 02:58 PM UTC

PDB ID : 1P92 / pdb_00001p92
Title : Crystal Structure of (H79A)DtxR
Authors : D'Aquino, J.A.; Ringe, D.
Deposited on : 2003-05-08
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	:	4-5-2 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

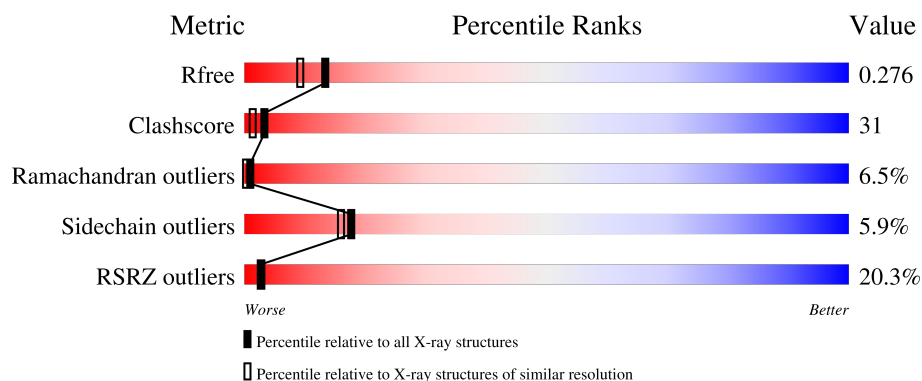
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (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	226	19% 53% 34% 9% ••

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 1791 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.

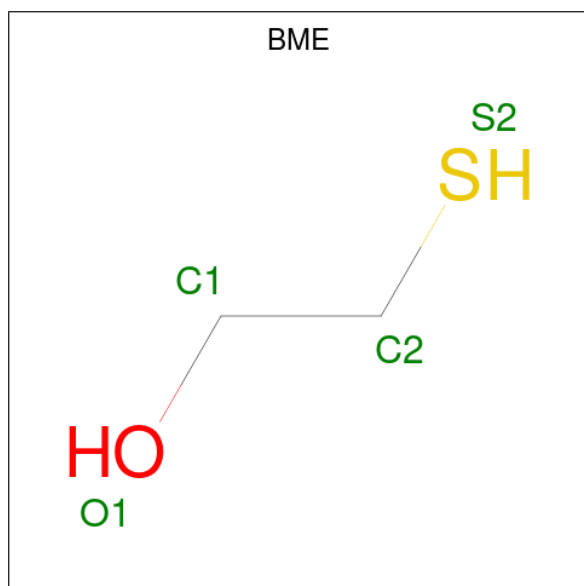
- Molecule 1 is a protein called Diphtheria toxin repressor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	218	Total	C	N	O	S	9	0	0
			1688	1044	302	334	8			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	79	ALA	HIS	engineered mutation	UNP P33120

- Molecule 2 is BETA-MERCAPTOETHANOL (CCD ID: BME) (formula: C₂H₆OS).



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

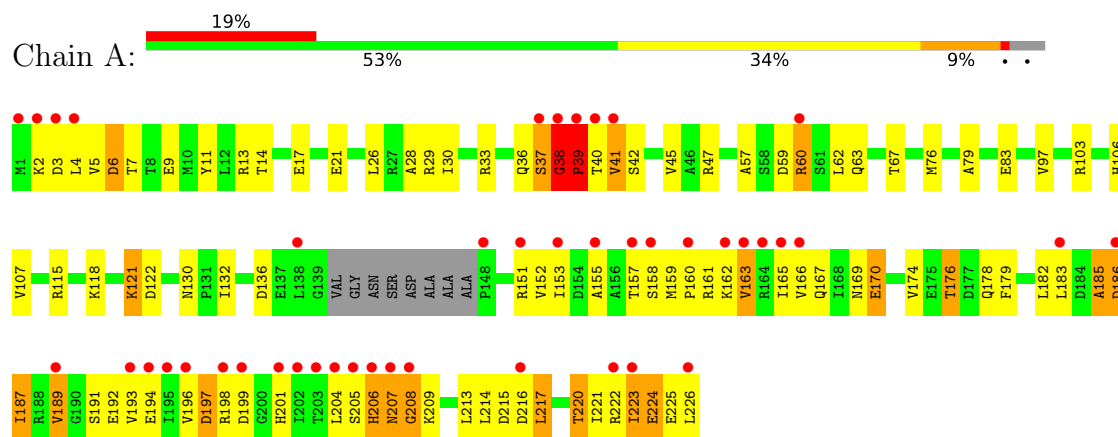
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	99	Total 99	O 99	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: Diphtheria toxin repressor



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	63.39Å 63.39Å 109.87Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	27.45 – 2.10 27.45 – 2.10	Depositor EDS
% Data completeness (in resolution range)	93.9 (27.45-2.10) 93.9 (27.45-2.10)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 2.10Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.243 , 0.280 0.242 , 0.276	Depositor DCC
R_{free} test set	757 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	27.8	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 54.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.051 for -h,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	1791	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.78% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BME

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	0.47	0/1706	1.64	13/2312 (0.6%)

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	38	GLY	CA-C-N	43.28	173.94	119.84
1	A	38	GLY	C-N-CA	43.28	173.94	119.84
1	A	38	GLY	C-N-CD	-12.66	73.09	125.00
1	A	174	VAL	N-CA-C	-8.55	104.97	111.90
1	A	41	VAL	N-CA-C	-7.15	102.15	111.09
1	A	39	PRO	N-CA-C	-7.03	98.00	112.47
1	A	7	THR	N-CA-C	-6.73	104.03	111.36
1	A	97	VAL	N-CA-C	5.73	116.47	110.62
1	A	132	ILE	CA-C-N	5.63	126.09	120.52
1	A	132	ILE	C-N-CA	5.63	126.09	120.52
1	A	176	THR	N-CA-C	5.38	119.56	112.89
1	A	185	ALA	N-CA-C	-5.29	106.67	113.02
1	A	220	THR	N-CA-C	5.09	119.52	112.45

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	1688	0	1686	103	1
2	A	4	0	5	0	0
3	A	99	0	0	6	0
All	All	1791	0	1691	103	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 31.

All (103) 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:37:SER:HA	1:A:40:THR:HA	1.30	1.13
1:A:40:THR:HG22	1:A:42:SER:H	1.33	0.92
1:A:196:VAL:HG12	1:A:197:ASP:H	1.33	0.91
1:A:153:ILE:HA	1:A:201:HIS:HE1	1.37	0.89
1:A:26:LEU:HB3	1:A:60:ARG:HH11	1.42	0.84
1:A:153:ILE:HA	1:A:201:HIS:CE1	2.11	0.84
1:A:121:LYS:HD3	1:A:122:ASP:N	1.95	0.81
1:A:2:LYS:HZ1	1:A:103:ARG:HA	1.46	0.81
1:A:163:VAL:HG11	1:A:223:ILE:HD12	1.61	0.80
1:A:26:LEU:HB3	1:A:60:ARG:NH1	2.01	0.76
1:A:57:ALA:HB2	1:A:63:GLN:HE21	1.51	0.75
1:A:213:LEU:HD22	1:A:217:LEU:HD23	1.70	0.74
1:A:178:GLN:NE2	1:A:214:LEU:HG	2.02	0.73
1:A:178:GLN:O	1:A:182:LEU:HD13	1.89	0.72
1:A:167:GLN:NE2	1:A:222:ARG:HD2	2.05	0.71
1:A:176:THR:HG23	1:A:179:PHE:CD2	2.24	0.71
1:A:152:VAL:HG22	1:A:223:ILE:HG23	1.72	0.71
1:A:167:GLN:HE21	1:A:222:ARG:HD2	1.56	0.70
1:A:11:TYR:HE2	1:A:41:VAL:HG13	1.58	0.69
1:A:196:VAL:HG12	1:A:197:ASP:N	2.08	0.68
1:A:178:GLN:OE1	1:A:217:LEU:HD22	1.93	0.67
1:A:152:VAL:HG23	1:A:221:ILE:O	1.93	0.67
1:A:187:ILE:HG12	1:A:205:SER:HB2	1.75	0.67
1:A:115:ARG:HH21	1:A:118:LYS:HD3	1.59	0.66
1:A:197:ASP:CG	1:A:198:ARG:H	2.04	0.65
1:A:11:TYR:CE2	1:A:41:VAL:HG13	2.31	0.65
1:A:130:ASN:ND2	3:A:627:HOH:O	2.30	0.64
1:A:28:ALA:HB2	1:A:60:ARG:HH22	1.62	0.63
1:A:37:SER:OG	1:A:40:THR:HG23	1.98	0.62
1:A:40:THR:HG22	1:A:41:VAL:N	2.14	0.62
1:A:165:ILE:HG13	3:A:607:HOH:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:LYS:HG3	1:A:6:ASP:CG	2.27	0.60
1:A:67:THR:HG23	3:A:562:HOH:O	2.01	0.59
1:A:2:LYS:NZ	1:A:103:ARG:HA	2.18	0.59
1:A:107:VAL:HG12	1:A:107:VAL:O	2.04	0.58
1:A:187:ILE:CG1	1:A:205:SER:HB2	2.33	0.57
1:A:189:VAL:HG12	1:A:189:VAL:O	2.04	0.57
1:A:169:ASN:HB2	1:A:220:THR:CG2	2.34	0.56
1:A:21:GLU:OE2	1:A:33:ARG:NH2	2.33	0.56
1:A:204:LEU:HA	1:A:209:LYS:O	2.05	0.55
1:A:205:SER:C	1:A:207:ASN:H	2.15	0.55
1:A:106:HIS:HB3	3:A:563:HOH:O	2.07	0.54
1:A:157:THR:HG22	1:A:158:SER:N	2.23	0.54
1:A:162:LYS:HA	1:A:192:GLU:O	2.08	0.54
1:A:59:ASP:O	1:A:60:ARG:HB2	2.08	0.53
1:A:178:GLN:HE22	1:A:214:LEU:HG	1.73	0.53
1:A:6:ASP:HB2	1:A:106:HIS:CG	2.45	0.52
1:A:2:LYS:HG3	1:A:6:ASP:OD2	2.09	0.51
1:A:13:ARG:HG3	1:A:76:MET:SD	2.51	0.51
1:A:40:THR:CG2	1:A:42:SER:H	2.16	0.51
1:A:155:ALA:CB	1:A:223:ILE:HD11	2.41	0.51
1:A:166:VAL:CG2	1:A:224:GLU:HB2	2.40	0.51
1:A:160:PRO:HA	1:A:194:GLU:O	2.11	0.50
1:A:121:LYS:HD3	1:A:122:ASP:CB	2.41	0.50
1:A:121:LYS:HD3	1:A:122:ASP:HB3	1.93	0.50
1:A:121:LYS:HD3	1:A:122:ASP:H	1.76	0.50
1:A:40:THR:CG2	1:A:41:VAL:N	2.74	0.49
1:A:207:ASN:O	1:A:209:LYS:N	2.46	0.49
1:A:2:LYS:HB2	3:A:581:HOH:O	2.13	0.49
1:A:57:ALA:HB2	1:A:63:GLN:NE2	2.24	0.49
1:A:79:ALA:O	1:A:83:GLU:HG3	2.13	0.49
1:A:207:ASN:O	1:A:208:GLY:C	2.55	0.49
1:A:197:ASP:CG	1:A:198:ARG:N	2.71	0.48
1:A:205:SER:OG	1:A:206:HIS:N	2.46	0.48
1:A:205:SER:C	1:A:207:ASN:N	2.71	0.48
1:A:38:GLY:H	1:A:39:PRO:C	2.22	0.48
1:A:107:VAL:O	1:A:107:VAL:CG1	2.61	0.48
1:A:40:THR:HG22	1:A:42:SER:N	2.15	0.47
1:A:37:SER:CA	1:A:40:THR:HA	2.22	0.47
1:A:36:GLN:O	1:A:37:SER:CB	2.62	0.47
1:A:130:ASN:HB2	3:A:627:HOH:O	2.15	0.46
1:A:161:ARG:NH1	1:A:225:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:VAL:O	1:A:191:SER:HA	2.14	0.46
1:A:9:GLU:HB2	1:A:106:HIS:CE1	2.50	0.46
1:A:155:ALA:HB3	1:A:223:ILE:HD11	1.96	0.46
1:A:226:LEU:HD12	1:A:226:LEU:C	2.41	0.46
1:A:38:GLY:H	1:A:40:THR:N	2.13	0.46
1:A:5:VAL:O	1:A:9:GLU:HG3	2.16	0.45
1:A:40:THR:CG2	1:A:41:VAL:H	2.29	0.45
1:A:193:VAL:HB	1:A:204:LEU:HB2	2.00	0.44
1:A:30:ILE:CD1	1:A:62:LEU:HD12	2.47	0.44
1:A:157:THR:HG22	1:A:159:MET:H	1.82	0.44
1:A:163:VAL:HG12	1:A:224:GLU:O	2.18	0.44
1:A:151:ARG:CD	1:A:222:ARG:HE	2.31	0.43
1:A:40:THR:HG22	1:A:41:VAL:H	1.80	0.43
1:A:196:VAL:CG1	1:A:197:ASP:H	2.14	0.43
1:A:167:GLN:HG3	1:A:169:ASN:ND2	2.33	0.43
1:A:185:ALA:O	1:A:186:ASP:HB3	2.19	0.43
1:A:186:ASP:OD1	1:A:187:ILE:N	2.52	0.43
1:A:197:ASP:C	1:A:199:ASP:H	2.28	0.42
1:A:2:LYS:NZ	1:A:103:ARG:CA	2.82	0.42
1:A:29:ARG:HA	1:A:29:ARG:HD2	1.84	0.42
1:A:198:ARG:HD3	1:A:198:ARG:HA	1.76	0.42
1:A:214:LEU:O	1:A:215:ASP:C	2.63	0.41
1:A:14:THR:HG23	1:A:33:ARG:HG2	2.03	0.41
1:A:170:GLU:CD	1:A:170:GLU:H	2.28	0.41
1:A:205:SER:O	1:A:207:ASN:N	2.53	0.41
1:A:157:THR:CG2	1:A:158:SER:N	2.83	0.41
1:A:13:ARG:O	1:A:17:GLU:HG3	2.21	0.41
1:A:167:GLN:HG2	1:A:222:ARG:HB2	2.03	0.41
1:A:167:GLN:CD	1:A:169:ASN:HD21	2.29	0.41
1:A:41:VAL:HG12	1:A:45:VAL:HG23	2.03	0.40
1:A:176:THR:O	1:A:176:THR:HG22	2.21	0.40

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)
1:A:38:GLY:O	1:A:176:THR:O[1_655]	2.10	0.10

5.3 Torsion angles

5.3.1 Protein backbone

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	214/226 (95%)	187 (87%)	13 (6%)	14 (6%)	1 0

All (14) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	37	SER
1	A	39	PRO
1	A	60	ARG
1	A	197	ASP
1	A	208	GLY
1	A	4	LEU
1	A	187	ILE
1	A	186	ASP
1	A	189	VAL
1	A	38	GLY
1	A	206	HIS
1	A	223	ILE
1	A	224	GLU

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	186/197 (94%)	175 (94%)	11 (6%)	18 16

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	ASP
1	A	39	PRO
1	A	47	ARG
1	A	121	LYS
1	A	136	ASP
1	A	163	VAL
1	A	170	GLU
1	A	183	LEU
1	A	207	ASN
1	A	216	ASP
1	A	217	LEU

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	63	GLN
1	A	167	GLN
1	A	169	ASN
1	A	173	GLN
1	A	178	GLN
1	A	201	HIS
1	A	207	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

1 ligand is 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	$\# Z > 2$
2	BME	A	550	1	3,3,3	0.43	0	2,2,2	1.79	1 (50%)

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
2	BME	A	550	1	-	1/1/1/1	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	550	BME	O1-C1-C2	2.37	120.09	110.82

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	550	BME	O1-C1-C2-S2

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	217/226 (96%)	0.89	44 (20%) 3 3	14, 35, 78, 92	1 (0%)

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	148	PRO	7.8
1	A	38	GLY	6.0
1	A	204	LEU	5.4
1	A	193	VAL	5.0
1	A	39	PRO	4.8
1	A	37	SER	4.5
1	A	199	ASP	4.2
1	A	40	THR	4.1
1	A	205	SER	4.0
1	A	201	HIS	3.8
1	A	1	MET	3.8
1	A	207	ASN	3.7
1	A	223	ILE	3.7
1	A	166	VAL	3.2
1	A	208	GLY	3.2
1	A	165	ILE	3.0
1	A	196	VAL	3.0
1	A	226	LEU	2.9
1	A	186	ASP	2.9
1	A	198	ARG	2.9
1	A	189	VAL	2.8
1	A	2	LYS	2.7
1	A	157	THR	2.7
1	A	60	ARG	2.7
1	A	206	HIS	2.6
1	A	216	ASP	2.6
1	A	155	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	138	LEU	2.5
1	A	195	ILE	2.5
1	A	194	GLU	2.5
1	A	203	THR	2.4
1	A	160	PRO	2.4
1	A	153	ILE	2.4
1	A	151	ARG	2.4
1	A	202	ILE	2.3
1	A	163	VAL	2.3
1	A	164	ARG	2.3
1	A	222	ARG	2.3
1	A	41	VAL	2.3
1	A	162	LYS	2.3
1	A	158	SER	2.2
1	A	4	LEU	2.2
1	A	3	ASP	2.1
1	A	183	LEU	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($\text{\AA}^2$)	Q<0.9
2	BME	A	550	4/4	0.73	0.25	42,42,81,86	0

6.5 Other polymers [i](#)

There are no such residues in this entry.