



Full wwPDB X-ray Structure Validation Report i

Oct 18, 2023 – 12:14 PM EDT

PDB ID : 1WZ9
Title : The 2.1 Å structure of a tumour suppressing serpin
Authors : Law, R.H.; Irving, J.A.; Buckle, A.M.; Ruzyla, K.; Buzzo, M.; Bashtannyk-Puhalovich, T.A.; Beddoe, T.C.; Kim, N.; Worrall, D.M.; Bottomley, S.P.; Bird, P.I.; Rossjohn, J.; Whisstock, J.C.
Deposited on : 2005-03-03
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 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 : 4.02b-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

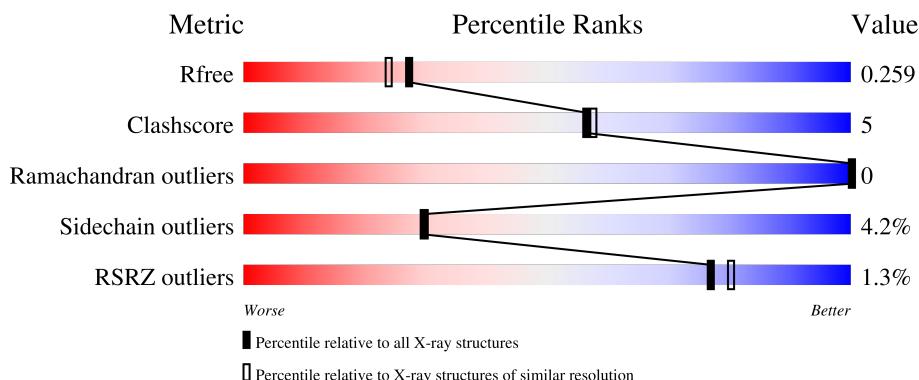
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

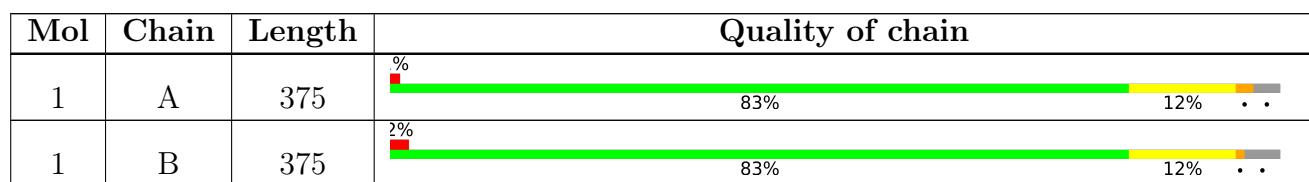
The reported resolution of this entry is 2.10 Å.

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.



2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 5729 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.

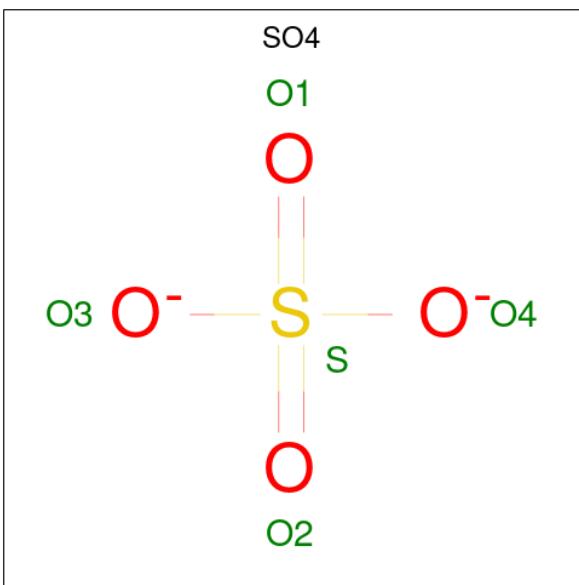
- Molecule 1 is a protein called Maspin precursor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	363	2804	1785	444	551	24	0	0	0
1	B	361	2719	1740	443	516	20	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	CME	CYS	modified residue	UNP P36952
A	66	VAL	ILE	SEE REMARK 999	UNP P36952
A	183	CME	CYS	modified residue	UNP P36952
A	205	CME	CYS	modified residue	UNP P36952
A	214	CME	CYS	modified residue	UNP P36952
A	323	CME	CYS	modified residue	UNP P36952
A	373	CME	CYS	modified residue	UNP P36952
B	20	CME	CYS	modified residue	UNP P36952
B	66	VAL	ILE	SEE REMARK 999	UNP P36952
B	183	CME	CYS	modified residue	UNP P36952
B	205	CME	CYS	modified residue	UNP P36952
B	214	CME	CYS	modified residue	UNP P36952
B	323	CME	CYS	modified residue	UNP P36952
B	373	CME	CYS	modified residue	UNP P36952

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



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

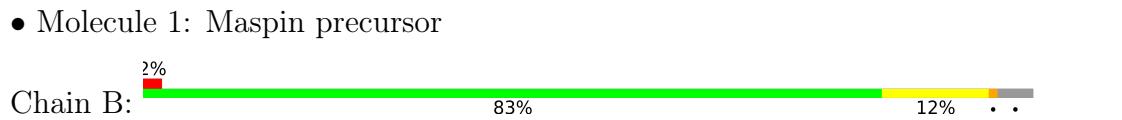
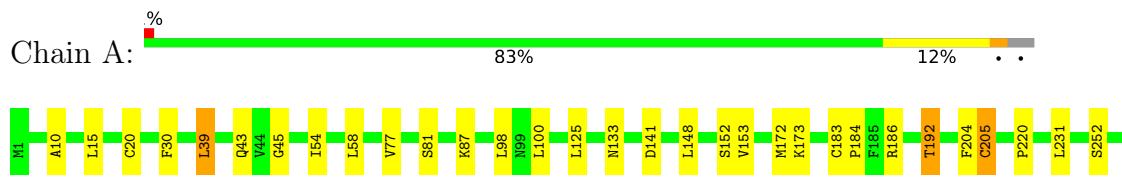
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	134	Total O 134 134	0	0
3	B	67	Total O 67 67	0	0

3 Residue-property plots

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: Maspin precursor



4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	54.12Å 95.05Å 139.22Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	78.57 – 2.10 78.50 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.6 (78.57-2.10) 99.6 (78.50-2.00)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.04	Depositor
$< I/\sigma(I) >$ ¹	0.00 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R , R_{free}	0.205 , 0.249 0.222 , 0.259	Depositor DCC
R_{free} test set	2474 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	38.3	Xtriage
Anisotropy	0.068	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 54.4	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	5729	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 4.76% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: CME, 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	0.41	0/2789	0.58	0/3766
1	B	0.39	0/2715	0.53	0/3668
All	All	0.40	0/5504	0.55	0/7434

There are no bond length outliers.

There are no bond angle outliers.

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	2804	0	2696	27	0
1	B	2719	0	2600	27	0
2	A	5	0	0	0	0
3	A	134	0	0	1	0
3	B	67	0	0	1	0
All	All	5729	0	5296	54	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 5.

All (54) 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:77:VAL:HG11	1:B:88:LEU:HD12	1.51	0.91
1:B:39:LEU:HB3	1:B:58:LEU:HD11	1.57	0.86
1:B:104:PHE:O	1:B:108:THR:HB	1.90	0.71
1:A:133:ASN:HD21	1:A:148:LEU:H	1.37	0.71
1:A:295:HIS:O	1:A:302:SER:HB3	1.95	0.66
1:B:182:GLU:HG2	1:B:196:GLN:NE2	2.14	0.62
1:A:272:SER:HB2	1:A:349:ASN:HD22	1.65	0.61
1:A:287:CYS:O	1:A:291:LEU:HD22	2.01	0.60
1:B:298:SER:HB3	1:B:301:THR:HG22	1.82	0.60
1:B:58:LEU:HD13	1:B:60:PHE:CE1	2.37	0.59
1:B:275:LYS:HE3	1:B:327:THR:HG22	1.85	0.58
1:B:54:ILE:HG23	1:B:58:LEU:HD12	1.85	0.57
1:B:303:ASP:OD1	1:B:305:SER:HB3	2.04	0.57
1:A:184:PRO:HB3	1:A:192:THR:HG21	1.86	0.57
1:A:276:PHE:HD2	1:A:278:VAL:HG23	1.72	0.55
1:B:203:THR:HG22	1:B:266:ASN:ND2	2.22	0.54
1:A:125:LEU:HD11	1:A:153:VAL:HG12	1.90	0.54
1:B:161:VAL:HG23	1:B:315:LEU:HD11	1.90	0.53
1:A:10:ALA:HA	1:A:252:SER:HB3	1.91	0.52
1:A:39:LEU:HB3	1:A:58:LEU:HD11	1.91	0.52
1:B:39:LEU:CB	1:B:58:LEU:HD11	2.37	0.51
1:B:298:SER:CB	1:B:301:THR:HG22	2.41	0.51
1:B:54:ILE:CG2	1:B:58:LEU:HD12	2.40	0.50
1:B:182:GLU:HG2	1:B:196:GLN:HE22	1.77	0.50
1:A:54:ILE:HA	1:A:293:LEU:HD21	1.93	0.49
1:A:259:THR:O	1:A:261:PRO:HD3	2.13	0.48
1:B:94:VAL:HG13	1:B:98:LEU:HD12	1.94	0.48
1:B:295:HIS:CD2	1:B:301:THR:HG23	2.49	0.48
1:B:186:ARG:O	1:B:353:PRO:HD3	2.15	0.47
1:A:172:MET:HE3	1:A:173:LYS:HE3	1.97	0.47
1:A:133:ASN:ND2	1:A:148:LEU:H	2.10	0.47
1:A:87:LYS:HE2	3:A:1058:HOH:O	2.14	0.47
1:A:45:GLY:HA3	1:A:307:MET:HE3	1.97	0.46
1:A:45:GLY:HA3	1:A:307:MET:CE	2.44	0.46
1:A:172:MET:HE2	1:A:220:PRO:HG2	1.97	0.46
1:A:184:PRO:HB3	1:A:192:THR:CG2	2.45	0.46
1:A:261:PRO:HA	1:A:264:MET:HB2	1.98	0.46
1:B:49:ASP:O	1:B:53:GLU:HB2	2.16	0.45
1:B:295:HIS:HD2	1:B:301:THR:HG23	1.81	0.45
1:B:352:HIS:HD2	3:B:409:HOH:O	1.99	0.45
1:A:204:PHE:HD2	1:A:269:VAL:HG13	1.81	0.45
1:B:256:SER:O	1:B:260:ASN:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:LYS:NZ	1:A:141:ASP:OD2	2.51	0.43
1:A:15:LEU:HD23	1:A:30:PHE:CE1	2.54	0.43
1:B:182:GLU:CG	1:B:196:GLN:HE22	2.31	0.42
1:B:5:GLN:HG3	1:B:363:THR:O	2.20	0.42
1:A:360:HIS:HD2	1:A:363:THR:OG1	2.01	0.42
1:A:30:PHE:CE2	1:A:369:PHE:HB3	2.55	0.42
1:B:282:ILE:HG13	1:B:320:HIS:HB3	2.01	0.41
1:A:205:CME:HE2	1:A:264:MET:O	2.20	0.41
1:A:43:GLN:HB2	1:A:54:ILE:HG21	2.03	0.41
1:B:170:LYS:HE3	1:B:329:ASP:OD1	2.20	0.41
1:A:186:ARG:HH21	1:A:351:ASP:CG	2.24	0.41
1:B:166:TYR:HA	1:B:323:CME:O	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	353/375 (94%)	342 (97%)	11 (3%)	0	100 100
1	B	347/375 (92%)	337 (97%)	10 (3%)	0	100 100
All	All	700/750 (93%)	679 (97%)	21 (3%)	0	100 100

There are no Ramachandran outliers to report.

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	297/334 (89%)	285 (96%)	12 (4%)	31 32
1	B	280/334 (84%)	268 (96%)	12 (4%)	29 29
All	All	577/668 (86%)	553 (96%)	24 (4%)	30 30

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	39	LEU
1	A	77	VAL
1	A	81	SER
1	A	98	LEU
1	A	100	LEU
1	A	152	SER
1	A	192	THR
1	A	231	LEU
1	A	269	VAL
1	A	291	LEU
1	A	301	THR
1	A	369	PHE
1	B	39	LEU
1	B	108	THR
1	B	145	GLU
1	B	192	THR
1	B	247	GLU
1	B	254	SER
1	B	266	ASN
1	B	291	LEU
1	B	305	SER
1	B	348	LEU
1	B	369	PHE
1	B	371	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	71	GLN
1	A	99	ASN
1	A	131	GLN

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Mol	Chain	Res	Type
1	A	133	ASN
1	A	199	ASN
1	A	213	ASN
1	A	260	ASN
1	A	349	ASN
1	A	360	HIS
1	B	5	GLN
1	B	78	ASN
1	B	196	GLN
1	B	199	ASN
1	B	222	GLN
1	B	260	ASN
1	B	266	ASN
1	B	295	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

12 non-standard protein/DNA/RNA residues 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
1	CME	B	214	1	4,5,10	0.89	0	1,5,11	0.03	0
1	CME	B	323	1	4,5,10	0.59	0	1,5,11	0.22	0
1	CME	A	214	1	8,9,10	0.79	0	5,9,11	0.81	0
1	CME	A	323	1	8,9,10	0.77	0	5,9,11	1.18	0
1	CME	B	20	1	4,5,10	0.57	0	1,5,11	0.42	0
1	CME	A	205	1	8,9,10	0.81	0	5,9,11	1.21	1 (20%)
1	CME	B	373	1	8,9,10	0.92	0	5,9,11	1.17	0
1	CME	B	183	1	8,9,10	0.85	0	5,9,11	1.75	1 (20%)
1	CME	B	205	1	8,9,10	0.82	0	5,9,11	1.47	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CME	A	183	1	8,9,10	0.92	0	5,9,11	1.43	1 (20%)
1	CME	A	20	1	8,9,10	0.76	0	5,9,11	1.65	1 (20%)
1	CME	A	373	1	8,9,10	0.78	0	5,9,11	1.25	1 (20%)

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
1	CME	B	214	1	-	1/1/4/10	-
1	CME	B	323	1	-	1/1/4/10	-
1	CME	A	214	1	-	2/5/8/10	-
1	CME	A	323	1	-	1/5/8/10	-
1	CME	B	20	1	-	0/1/4/10	-
1	CME	A	205	1	-	2/5/8/10	-
1	CME	B	373	1	-	3/5/8/10	-
1	CME	B	183	1	-	2/5/8/10	-
1	CME	B	205	1	-	1/5/8/10	-
1	CME	A	183	1	-	1/5/8/10	-
1	CME	A	20	1	-	2/5/8/10	-
1	CME	A	373	1	-	0/5/8/10	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	183	CME	CB-SG-SD	3.32	112.42	103.82
1	A	20	CME	CB-SG-SD	3.04	111.70	103.82
1	B	205	CME	CB-SG-SD	2.60	110.55	103.82
1	A	183	CME	CB-SG-SD	2.51	110.33	103.82
1	A	373	CME	CB-SG-SD	2.21	109.56	103.82
1	A	205	CME	CB-SG-SD	2.02	109.04	103.82

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	205	CME	SD-CE-CZ-OH

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Mol	Chain	Res	Type	Atoms
1	A	323	CME	SD-CE-CZ-OH
1	B	183	CME	CE-SD-SG-CB
1	B	205	CME	SD-CE-CZ-OH
1	A	20	CME	CE-SD-SG-CB
1	B	373	CME	CE-SD-SG-CB
1	B	373	CME	SD-CE-CZ-OH
1	A	20	CME	SD-CE-CZ-OH
1	A	214	CME	SD-CE-CZ-OH
1	A	214	CME	N-CA-CB-SG
1	B	214	CME	N-CA-CB-SG
1	B	323	CME	N-CA-CB-SG
1	A	183	CME	CZ-CE-SD-SG
1	A	205	CME	CZ-CE-SD-SG
1	B	183	CME	CZ-CE-SD-SG
1	B	373	CME	CZ-CE-SD-SG

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	323	CME	1	0
1	A	205	CME	1	0

5.5 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [\(i\)](#)

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	SO4	A	1001	-	4,4,4	0.16	0	6,6,6	0.16	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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 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	357/375 (95%)	-0.11	3 (0%)	86	88	21, 38, 50, 64
1	B	355/375 (94%)	0.03	6 (1%)	70	74	28, 47, 62, 69
All	All	712/750 (94%)	-0.04	9 (1%)	77	80	21, 42, 60, 69

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	292	GLY	2.8
1	B	301	THR	2.6
1	B	333	SER	2.6
1	B	241	THR	2.4
1	B	343	GLN	2.3
1	B	235	ASP	2.3
1	B	209	ILE	2.2
1	A	295	HIS	2.2
1	A	301	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains 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
1	CME	B	183	10/11	0.79	0.18	53,56,73,75	0
1	CME	A	20	10/11	0.85	0.11	31,34,51,52	0
1	CME	B	214	6/11	0.89	0.07	44,47,48,54	0
1	CME	B	373	10/11	0.89	0.14	40,46,70,72	0
1	CME	A	183	10/11	0.90	0.12	41,43,59,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
1	CME	A	323	10/11	0.91	0.13	25,30,54,57	0
1	CME	B	323	6/11	0.91	0.09	35,35,36,41	0
1	CME	B	205	10/11	0.91	0.13	45,47,68,73	0
1	CME	B	20	6/11	0.93	0.09	40,41,42,49	0
1	CME	A	214	10/11	0.95	0.10	37,40,53,59	0
1	CME	A	205	10/11	0.97	0.10	31,33,45,52	0
1	CME	A	373	10/11	0.97	0.09	26,29,40,46	0

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
2	SO4	A	1001	5/5	0.94	0.17	65,65,67,71	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.