



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2018 – 11:31 pm GMT

PDB ID : 1MUM
Title : Structure of the 2-Methylisocitrate Lyase (PrpB) from Escherichia coli
Authors : Grimm, C.; Reuter, K.
Deposited on : 2002-09-24
Resolution : 1.90 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

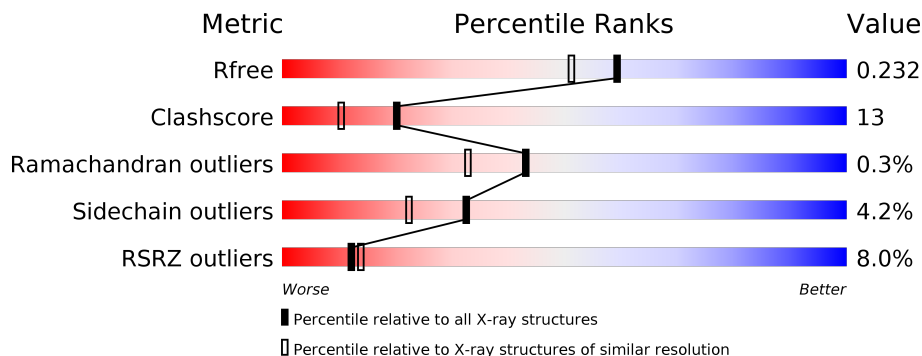
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

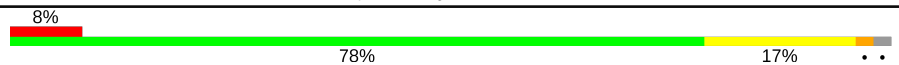

The reported resolution of this entry is 1.90 Å.

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}	111664	5502 (1.90-1.90)
Clashscore	122126	6115 (1.90-1.90)
Ramachandran outliers	120053	6048 (1.90-1.90)
Sidechain outliers	120020	6048 (1.90-1.90)
RSRZ outliers	108989	5379 (1.90-1.90)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	295	 8% 78% 17% ..
1	B	295	 7% 77% 19% ..

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4758 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 2-methylisocitrate lyase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	289	2200	1384	384	422	10	0	0	0
1	B	289	2200	1384	384	422	10	0	0	0

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total 1	Mg 1	0	0
2	A	1	Total 1	Mg 1	0	0

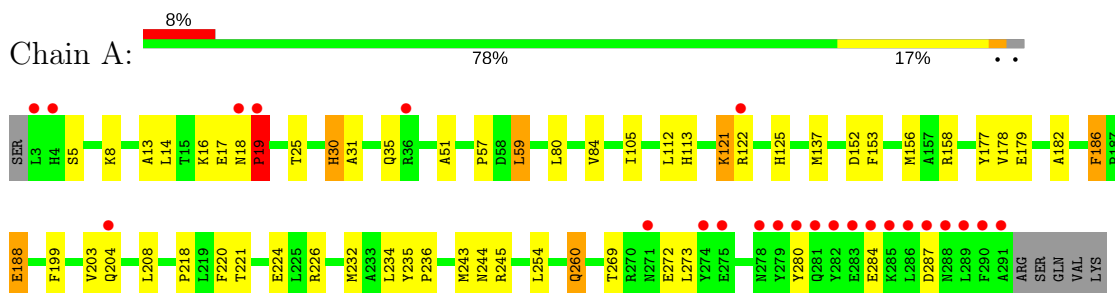
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	185	Total 185	O 185	0	0
3	B	171	Total 171	O 171	0	0

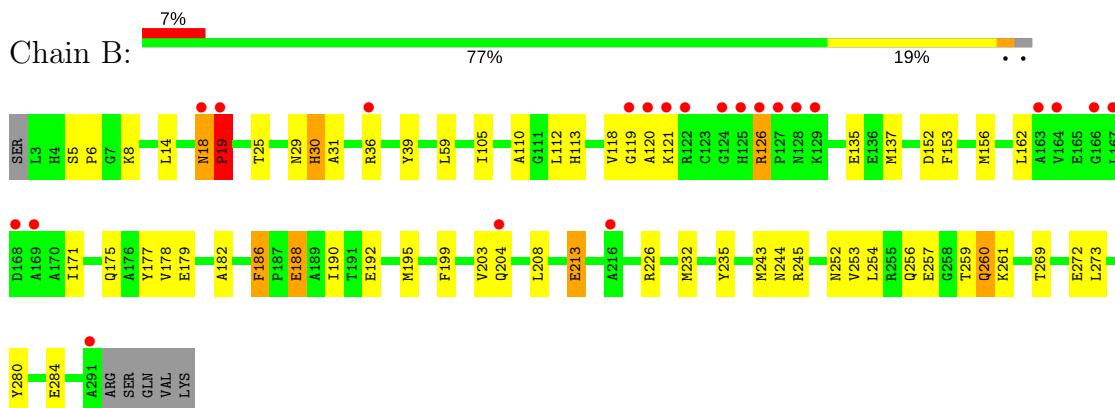
3 Residue-property plots i

These plots are drawn for all protein, RNA and DNA 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: 2-methylisocitrate lyase



- Molecule 1: 2-methylisocitrate lyase



4 Data and refinement statistics i

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	82.89Å 82.89Å 166.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.35 – 1.90 29.35 – 1.90	Depositor EDS
% Data completeness (in resolution range)	94.8 (29.35-1.90) 95.0 (29.35-1.90)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.67 (at 1.91Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.213 , 0.234 0.211 , 0.232	Depositor DCC
R_{free} test set	1508 reflections (2.86%)	wwPDB-VP
Wilson B-factor (Å ²)	23.3	Xtrriage
Anisotropy	0.360	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 41.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.026 for -h,-k,l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4758	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 4.07% 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: MG

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	0.31	0/2235	0.59	0/3031
1	B	0.31	0/2235	0.59	1/3031 (0.0%)
All	All	0.31	0/4470	0.59	1/6062 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	18	ASN	N-CA-C	-5.38	96.46	111.00

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	2200	0	2198	66	0
1	B	2200	0	2198	71	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	185	0	0	1	0
3	B	171	0	0	0	0
All	All	4758	0	4396	118	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 13.

All (118) 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:260:GLN:H	1:B:260:GLN:HE21	1.08	0.98
1:A:243:MET:SD	1:B:243:MET:HE2	2.14	0.86
1:A:243:MET:HE2	1:B:243:MET:SD	2.19	0.83
1:A:260:GLN:HE21	1:A:260:GLN:H	1.25	0.81
1:A:243:MET:HE2	1:B:243:MET:HE2	1.62	0.79
1:A:243:MET:CE	1:B:243:MET:HE2	2.14	0.76
1:A:18:ASN:CG	1:A:19:PRO:HD2	2.08	0.74
1:A:243:MET:HE2	1:B:243:MET:CE	2.20	0.72
1:A:18:ASN:O	1:A:19:PRO:C	2.27	0.71
1:A:30:HIS:NE2	1:A:243:MET:CE	2.54	0.71
1:B:30:HIS:NE2	1:B:243:MET:HE3	2.05	0.71
1:A:30:HIS:NE2	1:A:243:MET:HE1	2.05	0.71
1:B:259:THR:OG1	1:B:261:LYS:HG3	1.91	0.70
1:B:30:HIS:NE2	1:B:243:MET:CE	2.56	0.69
1:B:260:GLN:N	1:B:260:GLN:HE21	1.89	0.68
1:A:30:HIS:HE1	1:B:244:ASN:ND2	1.92	0.68
1:A:204:GLN:O	1:A:204:GLN:HG2	1.94	0.66
1:B:19:PRO:HG2	1:B:226:ARG:HB2	1.78	0.66
1:B:273:LEU:C	1:B:273:LEU:HD23	2.18	0.64
1:A:280:TYR:O	1:A:284:GLU:HG3	1.99	0.62
1:A:121:LYS:H	1:A:125:HIS:HD2	1.45	0.62
1:B:18:ASN:CG	1:B:19:PRO:HD2	2.19	0.62
1:B:213:GLU:H	1:B:213:GLU:CD	2.03	0.61
1:B:18:ASN:O	1:B:19:PRO:C	2.37	0.61
1:A:244:ASN:ND2	1:B:30:HIS:HE1	1.99	0.61
1:B:204:GLN:O	1:B:204:GLN:HG2	2.02	0.60
1:A:243:MET:HE3	1:B:243:MET:HG3	1.84	0.60
1:B:8:LYS:HG2	1:B:152:ASP:CG	2.23	0.59
1:A:121:LYS:HA	1:A:121:LYS:HE2	1.84	0.59
1:A:273:LEU:HD23	1:A:273:LEU:C	2.22	0.59
1:A:158:ARG:CZ	1:A:188:GLU:HG3	2.34	0.58
1:A:244:ASN:HD22	1:B:30:HIS:HE1	1.51	0.58
1:A:14:LEU:HD21	1:A:232:MET:CG	2.34	0.57
1:A:243:MET:CE	1:B:243:MET:HG3	2.34	0.57
1:B:252:ASN:O	1:B:256:GLN:HG3	2.05	0.57
1:A:30:HIS:HE1	1:B:244:ASN:HD22	1.53	0.56
1:A:199:PHE:O	1:A:203:VAL:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:MET:CG	1:B:243:MET:HE2	2.36	0.56
1:A:18:ASN:CB	1:A:19:PRO:HD2	2.36	0.56
1:A:30:HIS:NE2	1:A:243:MET:HE3	2.21	0.56
1:A:112:LEU:HD12	1:A:112:LEU:C	2.26	0.55
1:A:121:LYS:H	1:A:125:HIS:CD2	2.23	0.55
1:A:25:THR:HG21	1:A:31:ALA:HA	1.88	0.55
1:A:113:HIS:HA	1:A:156:MET:O	2.07	0.54
1:A:19:PRO:HG2	1:A:226:ARG:HB2	1.88	0.54
1:A:243:MET:HG3	1:B:243:MET:CE	2.38	0.54
1:B:112:LEU:C	1:B:112:LEU:HD12	2.28	0.54
1:A:269:THR:OG1	1:A:272:GLU:HG3	2.07	0.54
1:A:243:MET:HG3	1:B:243:MET:HE2	1.88	0.53
1:B:18:ASN:HD22	1:B:226:ARG:HD3	1.74	0.53
1:B:5:SER:HB3	1:B:8:LYS:CD	2.39	0.53
1:B:8:LYS:HG2	1:B:152:ASP:OD2	2.10	0.52
1:B:5:SER:OG	1:B:8:LYS:HG3	2.10	0.52
1:B:18:ASN:CB	1:B:19:PRO:HD2	2.40	0.52
1:B:118:VAL:HG23	1:B:119:GLY:N	2.24	0.51
1:B:30:HIS:NE2	1:B:243:MET:HE1	2.26	0.51
1:A:122:ARG:NH1	1:A:122:ARG:HB3	2.25	0.51
1:B:18:ASN:ND2	1:B:226:ARG:HD3	2.25	0.51
1:B:269:THR:OG1	1:B:272:GLU:HG3	2.11	0.51
1:B:171:ILE:O	1:B:175:GLN:HG3	2.10	0.51
1:A:254:LEU:HD21	1:B:235:TYR:CG	2.47	0.50
1:B:280:TYR:O	1:B:284:GLU:HG3	2.12	0.50
1:A:5:SER:HB3	1:A:8:LYS:CD	2.42	0.49
1:A:186:PHE:C	1:A:186:PHE:CD2	2.86	0.49
1:A:235:TYR:CG	1:B:254:LEU:HD21	2.47	0.49
1:B:25:THR:HG21	1:B:31:ALA:HA	1.93	0.49
1:B:192:GLU:HB2	1:B:195:MET:HG3	1.95	0.49
1:A:158:ARG:NH2	1:A:188:GLU:HG3	2.27	0.49
1:A:18:ASN:OD1	1:A:19:PRO:HD2	2.12	0.48
1:A:137:MET:HG2	1:A:177:TYR:CZ	2.49	0.47
1:A:254:LEU:HB3	1:B:39:TYR:OH	2.14	0.47
1:A:287:ASP:CG	1:B:126:ARG:HH22	2.17	0.47
1:B:186:PHE:CD2	1:B:186:PHE:C	2.87	0.47
1:A:51:ALA:O	1:B:29:ASN:HB2	2.15	0.47
1:A:234:LEU:HG	1:A:236:PRO:HD3	1.97	0.47
1:A:5:SER:HB3	1:A:8:LYS:HD2	1.96	0.47
1:A:186:PHE:C	1:A:186:PHE:HD2	2.18	0.47
1:A:260:GLN:H	1:A:260:GLN:NE2	2.04	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:LEU:C	1:A:208:LEU:HD23	2.34	0.46
1:A:122:ARG:NH1	1:A:122:ARG:CB	2.79	0.46
1:B:14:LEU:HD21	1:B:232:MET:CG	2.46	0.46
1:A:17:GLU:C	1:A:18:ASN:O	2.50	0.46
1:B:162:LEU:HD22	1:B:190:ILE:HD13	1.98	0.46
1:B:5:SER:HB3	1:B:8:LYS:HD2	1.98	0.46
1:B:8:LYS:HE2	1:B:152:ASP:OD2	2.16	0.45
1:A:18:ASN:O	1:A:19:PRO:O	2.34	0.45
1:B:5:SER:CB	1:B:8:LYS:HG3	2.47	0.45
1:B:113:HIS:HA	1:B:156:MET:O	2.17	0.44
1:B:253:VAL:O	1:B:257:GLU:HG3	2.17	0.44
1:B:6:PRO:HB2	1:B:110:ALA:HB2	1.99	0.44
1:A:122:ARG:CB	1:A:122:ARG:HH11	2.31	0.44
1:A:221:THR:OG1	1:A:224:GLU:HG3	2.18	0.44
1:B:137:MET:HG2	1:B:177:TYR:CZ	2.53	0.44
1:B:18:ASN:O	1:B:19:PRO:O	2.35	0.43
1:A:178:VAL:HA	1:A:182:ALA:HB3	2.00	0.43
1:B:186:PHE:C	1:B:186:PHE:HD2	2.22	0.43
1:B:178:VAL:HG21	1:B:203:VAL:HB	2.01	0.43
1:B:105:ILE:HG12	1:B:153:PHE:CD1	2.53	0.43
1:B:273:LEU:O	1:B:273:LEU:HD23	2.19	0.42
1:A:57:PRO:CG	1:A:59:LEU:HD22	2.49	0.42
1:B:5:SER:HB3	1:B:8:LYS:CG	2.50	0.42
1:B:36:ARG:HD3	1:B:36:ARG:HA	1.90	0.42
1:B:199:PHE:O	1:B:203:VAL:HG22	2.19	0.42
1:A:30:HIS:HD2	3:A:1092:HOH:O	2.03	0.42
1:A:84:VAL:O	1:A:112:LEU:HA	2.20	0.42
1:A:14:LEU:HD21	1:A:232:MET:HG3	2.01	0.42
1:B:208:LEU:C	1:B:208:LEU:HD23	2.39	0.42
1:A:35:GLN:HA	1:A:80:LEU:HD11	2.01	0.41
1:B:273:LEU:CD2	1:B:273:LEU:C	2.87	0.41
1:B:135:GLU:CD	1:B:135:GLU:H	2.24	0.41
1:B:178:VAL:HA	1:B:182:ALA:HB3	2.02	0.41
1:A:218:PRO:HD2	1:A:220:PHE:CE1	2.56	0.41
1:A:105:ILE:HG12	1:A:153:PHE:CD1	2.55	0.41
1:A:8:LYS:HG2	1:A:152:ASP:CG	2.40	0.41
1:A:13:ALA:HA	1:A:16:LYS:HE2	2.03	0.41
1:B:186:PHE:CE2	1:B:188:GLU:HG2	2.56	0.41
1:B:120:ALA:O	1:B:121:LYS:HB3	2.20	0.40
1:B:118:VAL:HG23	1:B:119:GLY:H	1.86	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	287/295 (97%)	277 (96%)	9 (3%)	1 (0%)	43	33
1	B	287/295 (97%)	281 (98%)	5 (2%)	1 (0%)	43	33
All	All	574/590 (97%)	558 (97%)	14 (2%)	2 (0%)	43	33

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	19	PRO
1	B	19	PRO

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	226/232 (97%)	217 (96%)	9 (4%)	34	24
1	B	226/232 (97%)	216 (96%)	10 (4%)	31	21
All	All	452/464 (97%)	433 (96%)	19 (4%)	32	22

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	PRO
1	A	30	HIS
1	A	59	LEU
1	A	121	LYS

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Mol	Chain	Res	Type
1	A	179	GLU
1	A	186	PHE
1	A	188	GLU
1	A	245	ARG
1	A	260	GLN
1	B	19	PRO
1	B	30	HIS
1	B	59	LEU
1	B	126	ARG
1	B	179	GLU
1	B	186	PHE
1	B	188	GLU
1	B	213	GLU
1	B	245	ARG
1	B	260	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	HIS
1	A	125	HIS
1	A	175	GLN
1	A	244	ASN
1	A	260	GLN
1	A	271	ASN
1	B	40	GLN
1	B	244	ASN
1	B	260	GLN
1	B	271	ASN
1	B	288	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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

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	289/295 (97%)	0.20	24 (8%) 11 13	16, 23, 40, 57	0
1	B	289/295 (97%)	0.28	22 (7%) 14 15	16, 23, 43, 72	0
All	All	578/590 (97%)	0.24	46 (7%) 12 14	16, 23, 40, 72	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	280	TYR	10.6
1	A	291	ALA	9.1
1	B	125	HIS	8.4
1	B	291	ALA	6.6
1	A	18	ASN	6.0
1	A	284	GLU	5.7
1	A	287	ASP	5.7
1	B	128	ASN	5.4
1	B	18	ASN	5.3
1	A	283	GLU	5.1
1	B	126	ARG	5.1
1	B	129	LYS	5.0
1	A	281	GLN	4.9
1	B	204	GLN	4.8
1	A	279	TYR	4.6
1	B	122	ARG	4.4
1	B	164	VAL	4.2
1	A	19	PRO	4.1
1	B	120	ALA	4.0
1	B	127	PRO	4.0
1	A	204	GLN	3.9
1	A	288	ASN	3.8
1	A	286	LEU	3.8
1	B	167	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
1	B	169	ALA	3.5
1	B	19	PRO	3.5
1	B	163	ALA	3.3
1	A	289	LEU	3.2
1	B	121	LYS	3.1
1	A	274	TYR	3.0
1	A	290	PHE	3.0
1	A	285	LYS	2.9
1	B	119	GLY	2.7
1	A	36	ARG	2.7
1	B	124	GLY	2.5
1	A	3	LEU	2.5
1	A	278	ASN	2.4
1	A	271	ASN	2.3
1	B	36	ARG	2.3
1	B	216	ALA	2.2
1	B	166	GLY	2.2
1	A	122	ARG	2.2
1	A	275	GLU	2.2
1	A	282	TYR	2.1
1	B	168	ASP	2.1
1	A	4	HIS	2.1

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 carbohydrates 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(\AA^2)	Q<0.9
2	MG	B	1002	1/1	0.91	0.06	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	MG	A	1001	1/1	0.92	0.07	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.