



Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 10:07 pm BST

PDB ID : 2I71
Title : Crystal structure of a Conserved Protein of Unknown Function from *Sulfolobus solfataricus* P2
Authors : Tan, K.; Skarina, T.; Onopriyenko, O.; Savchenko, A.; Edwards, A.; Joachimiak, A.; Midwest Center for Structural Genomics (MCSG)
Deposited on : 2006-08-30
Resolution : 1.70 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
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) : 2.11

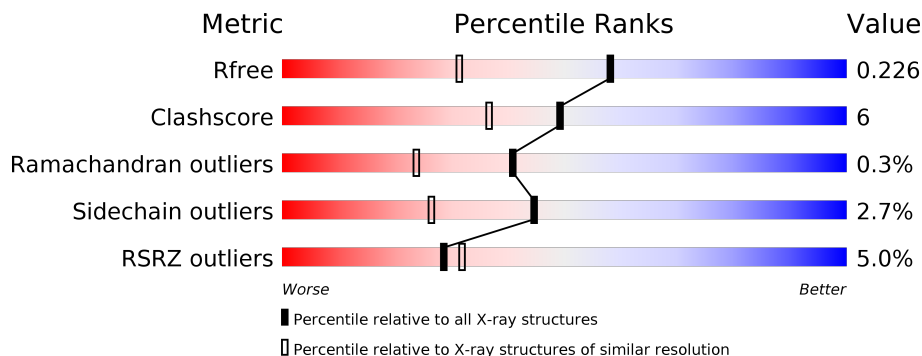
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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 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	400	 6% 80% 12% • 7%
1	B	400	 4% 85% 9% • 6%

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 6785 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 Hypothetical protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	371	2983	1919	482	574	3	5	0	0	0
1	B	376	3014	1939	486	581	3	5	0	0	0

There are 56 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-20	MSE	-	CLONING ARTIFACT	UNP Q97YD5
A	-19	GLY	-	CLONING ARTIFACT	UNP Q97YD5
A	-18	SER	-	CLONING ARTIFACT	UNP Q97YD5
A	-17	SER	-	CLONING ARTIFACT	UNP Q97YD5
A	-16	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-15	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-14	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-13	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-12	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-11	HIS	-	EXPRESSION TAG	UNP Q97YD5
A	-10	SER	-	CLONING ARTIFACT	UNP Q97YD5
A	-9	SER	-	CLONING ARTIFACT	UNP Q97YD5
A	-8	GLY	-	CLONING ARTIFACT	UNP Q97YD5
A	-7	ARG	-	CLONING ARTIFACT	UNP Q97YD5
A	-6	GLU	-	CLONING ARTIFACT	UNP Q97YD5
A	-5	ASN	-	CLONING ARTIFACT	UNP Q97YD5
A	-4	LEU	-	CLONING ARTIFACT	UNP Q97YD5
A	-3	TYR	-	CLONING ARTIFACT	UNP Q97YD5
A	-2	PHE	-	CLONING ARTIFACT	UNP Q97YD5
A	-1	GLN	-	CLONING ARTIFACT	UNP Q97YD5
A	0	GLY	-	CLONING ARTIFACT	UNP Q97YD5
A	1	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
A	133	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
A	267	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
A	319	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5

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Chain	Residue	Modelled	Actual	Comment	Reference
A	330	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
A	378	GLY	-	CLONING ARTIFACT	UNP Q97YD5
A	379	SER	-	CLONING ARTIFACT	UNP Q97YD5
B	-20	MSE	-	CLONING ARTIFACT	UNP Q97YD5
B	-19	GLY	-	CLONING ARTIFACT	UNP Q97YD5
B	-18	SER	-	CLONING ARTIFACT	UNP Q97YD5
B	-17	SER	-	CLONING ARTIFACT	UNP Q97YD5
B	-16	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-15	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-14	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-13	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-12	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-11	HIS	-	EXPRESSION TAG	UNP Q97YD5
B	-10	SER	-	CLONING ARTIFACT	UNP Q97YD5
B	-9	SER	-	CLONING ARTIFACT	UNP Q97YD5
B	-8	GLY	-	CLONING ARTIFACT	UNP Q97YD5
B	-7	ARG	-	CLONING ARTIFACT	UNP Q97YD5
B	-6	GLU	-	CLONING ARTIFACT	UNP Q97YD5
B	-5	ASN	-	CLONING ARTIFACT	UNP Q97YD5
B	-4	LEU	-	CLONING ARTIFACT	UNP Q97YD5
B	-3	TYR	-	CLONING ARTIFACT	UNP Q97YD5
B	-2	PHE	-	CLONING ARTIFACT	UNP Q97YD5
B	-1	GLN	-	CLONING ARTIFACT	UNP Q97YD5
B	0	GLY	-	CLONING ARTIFACT	UNP Q97YD5
B	1	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
B	133	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
B	267	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
B	319	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
B	330	MSE	MET	MODIFIED RESIDUE	UNP Q97YD5
B	378	GLY	-	CLONING ARTIFACT	UNP Q97YD5
B	379	SER	-	CLONING ARTIFACT	UNP Q97YD5

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

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

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	361	Total 361	O 361	0	0
3	B	425	Total 425	O 425	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	78.85Å 84.92Å 108.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	27.92 – 1.70 27.92 – 1.70	Depositor EDS
% Data completeness (in resolution range)	99.1 (27.92-1.70) 99.1 (27.92-1.70)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.22 (at 1.70Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.181 , 0.227 0.180 , 0.226	Depositor DCC
R_{free} test set	4013 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	17.3	Xtrriage
Anisotropy	0.023	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 49.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6785	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.88% 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	0.80	0/3036	0.74	0/4091
1	B	0.84	0/3067	0.78	0/4131
All	All	0.82	0/6103	0.76	0/8222

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.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	358	GLU	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	2983	0	2984	43	0
1	B	3014	0	3018	38	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	361	0	0	17	0
3	B	425	0	0	11	0
All	All	6785	0	6002	71	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 6.

All (71) 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:201:ASP:HB3	3:B:598:HOH:O	1.64	0.98
1:A:30:ASN:HB3	3:A:578:HOH:O	1.67	0.93
1:B:77:ASN:HB2	3:B:657:HOH:O	1.72	0.88
1:B:69:GLU:HG2	3:B:724:HOH:O	1.74	0.87
1:A:-1:GLN:CG	1:B:152:SER:HB3	2.04	0.86
1:A:157:LYS:HE3	3:A:697:HOH:O	1.80	0.80
1:A:-1:GLN:HB3	1:B:-1:GLN:NE2	1.98	0.77
1:A:131:ASN:HD22	1:A:132:TYR:H	1.33	0.77
1:A:-1:GLN:HG3	1:B:154:LYS:HD2	1.69	0.75
1:B:195:TYR:CE2	3:B:686:HOH:O	2.41	0.74
1:B:131:ASN:HD22	1:B:132:TYR:H	1.35	0.72
1:A:41:LYS:HE2	3:A:722:HOH:O	1.89	0.71
1:A:-1:GLN:HG3	1:B:152:SER:HB3	1.71	0.70
1:A:-1:GLN:HG2	1:B:152:SER:HB3	1.71	0.70
1:A:-1:GLN:CB	1:B:-1:GLN:NE2	2.55	0.69
1:A:157:LYS:CE	3:A:697:HOH:O	2.40	0.68
1:A:30:ASN:HB3	3:A:758:HOH:O	1.94	0.68
1:A:98:LYS:HD3	3:A:584:HOH:O	1.93	0.67
1:A:17:LYS:HE3	1:A:28:GLU:HB3	1.81	0.62
1:A:64:TYR:HD1	1:A:253:LEU:HD13	1.64	0.62
1:A:153:GLU:OE1	1:A:293:HIS:HE1	1.84	0.61
1:B:254:THR:HG23	3:B:491:HOH:O	2.00	0.61
1:A:246:ASP:HB3	1:A:265:LYS:NZ	2.15	0.61
1:A:254:THR:HG23	3:A:462:HOH:O	2.00	0.59
1:A:157:LYS:CG	3:A:697:HOH:O	2.51	0.57
1:A:324:LYS:HD2	1:A:328:GLU:OE1	2.04	0.57
1:A:235:ASP:OD2	1:A:238:LEU:HD22	2.05	0.56
1:B:13:LYS:HE2	3:B:648:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:372:GLU:HG3	3:A:665:HOH:O	2.06	0.54
1:B:209:PHE:CE2	1:B:216:ILE:HD11	2.44	0.52
1:A:293:HIS:HD2	1:B:43:ASP:OD2	1.92	0.52
1:B:36:LEU:HD21	1:B:40:LEU:HD12	1.92	0.52
1:B:36:LEU:CD2	1:B:40:LEU:HD12	2.41	0.51
1:A:-1:GLN:HB3	1:B:-1:GLN:CD	2.32	0.50
1:A:151:LYS:HE2	3:A:592:HOH:O	2.11	0.50
1:A:157:LYS:HD3	3:A:622:HOH:O	2.12	0.49
1:A:44:LYS:HE3	1:A:117:GLU:OE1	2.13	0.48
1:B:335:LYS:HE2	1:B:335:LYS:HB3	1.50	0.48
1:B:216:ILE:HD12	1:B:276:PHE:CE2	2.49	0.47
1:B:216:ILE:CD1	1:B:276:PHE:CZ	2.98	0.47
1:B:341:ILE:HG22	3:B:477:HOH:O	2.15	0.47
1:A:131:ASN:ND2	1:A:132:TYR:H	2.08	0.47
1:A:-1:GLN:HE21	1:B:-1:GLN:HG3	1.80	0.47
1:B:9:ILE:HD13	1:B:128:HIS:HB2	1.96	0.46
1:A:23:ASP:H	1:A:175:LYS:NZ	2.13	0.46
1:A:100:ASP:HB2	1:A:267:MSE:HE3	1.96	0.46
1:B:322:GLU:H	1:B:322:GLU:CD	2.19	0.46
1:B:323:ARG:NH1	3:B:621:HOH:O	2.48	0.45
1:A:246:ASP:HB3	1:A:265:LYS:HZ2	1.80	0.45
1:B:239:HIS:HE1	3:B:748:HOH:O	1.99	0.45
1:B:331:LYS:HD3	3:B:730:HOH:O	2.15	0.45
1:A:296:GLU:OE2	1:A:308:GLU:OE2	2.36	0.44
1:A:239:HIS:HD2	3:A:487:HOH:O	2.00	0.44
1:B:341:ILE:CG2	1:B:342:LEU:H	2.30	0.44
1:A:157:LYS:HG3	3:A:697:HOH:O	2.16	0.44
1:A:239:HIS:HE1	3:A:736:HOH:O	2.00	0.44
1:A:256:SER:HB2	1:A:259:GLU:HB2	2.00	0.43
1:A:181:ALA:HB1	3:A:697:HOH:O	2.17	0.43
1:B:168:LYS:HA	1:B:168:LYS:HD3	1.68	0.43
1:A:359:LYS:HG2	3:A:724:HOH:O	2.18	0.43
1:A:121:GLU:CD	3:A:622:HOH:O	2.56	0.43
1:B:216:ILE:HB	1:B:217:PRO:HD3	1.99	0.43
1:B:341:ILE:CG2	1:B:342:LEU:N	2.81	0.42
1:B:216:ILE:CD1	1:B:276:PHE:CE2	3.02	0.42
1:B:190:LEU:HD23	1:B:190:LEU:C	2.40	0.42
1:A:-1:GLN:HB3	1:B:-1:GLN:HE21	1.82	0.42
1:B:331:LYS:HD3	1:B:331:LYS:HA	1.84	0.41
1:A:31:VAL:HG11	1:A:79:LEU:HD22	2.02	0.41
1:A:190:LEU:C	1:A:190:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:LEU:HB2	1:B:328:GLU:HG3	2.03	0.41
1:B:109:HIS:HE1	3:B:446:HOH:O	2.04	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	367/400 (92%)	358 (98%)	8 (2%)	1 (0%)	41	24
1	B	372/400 (93%)	360 (97%)	11 (3%)	1 (0%)	41	24
All	All	739/800 (92%)	718 (97%)	19 (3%)	2 (0%)	41	24

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	359	LYS
1	B	257	GLU

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	329/347 (95%)	316 (96%)	13 (4%)	31	13
1	B	332/347 (96%)	327 (98%)	5 (2%)	65	51

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	661/694 (95%)	643 (97%)	18 (3%)	44 26

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	-1	GLN
1	A	16	GLN
1	A	21	GLU
1	A	63	ASP
1	A	68	LYS
1	A	168	LYS
1	A	170	VAL
1	A	201	ASP
1	A	202	LYS
1	A	207	LYS
1	A	238	LEU
1	A	241	LYS
1	A	253	LEU
1	B	55	ASP
1	B	203	ASN
1	B	254	THR
1	B	335	LYS
1	B	348	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	-1	GLN
1	A	16	GLN
1	A	73	GLN
1	A	131	ASN
1	A	214	ASN
1	A	239	HIS
1	A	285	ASN
1	A	293	HIS
1	A	318	GLN
1	B	-1	GLN
1	B	109	HIS
1	B	131	ASN
1	B	214	ASN
1	B	239	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](#)

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	366/400 (91%)	0.25	23 (6%) 20 22	9, 18, 37, 50	0
1	B	371/400 (92%)	0.03	14 (3%) 40 45	8, 15, 31, 42	0
All	All	737/800 (92%)	0.14	37 (5%) 28 32	8, 16, 34, 50	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	170	VAL	8.7
1	B	336	GLY	5.6
1	A	258	ASN	5.5
1	B	257	GLU	5.2
1	A	317	TYR	5.1
1	B	258	ASN	4.7
1	A	169	ASP	4.6
1	A	321	SER	4.2
1	A	327	GLY	3.9
1	A	171	SER	3.8
1	A	257	GLU	3.8
1	B	-2	PHE	3.7
1	A	166	VAL	3.5
1	A	242	ARG	3.3
1	A	256	SER	3.2
1	A	202	LYS	3.2
1	B	341	ILE	3.0
1	B	172	ASP	3.0
1	A	172	ASP	2.9
1	B	170	VAL	2.8
1	A	329	TYR	2.8
1	A	-1	GLN	2.8
1	B	202	LYS	2.7
1	B	335	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	256	SER	2.7
1	A	318	GLN	2.6
1	A	-2	PHE	2.6
1	B	210	SER	2.5
1	B	333	GLU	2.5
1	B	334	GLY	2.5
1	B	332	VAL	2.2
1	A	354	TYR	2.1
1	A	324	LYS	2.1
1	A	328	GLU	2.1
1	A	340	ARG	2.1
1	A	359	LYS	2.1
1	A	322	GLU	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 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(Å ²)	Q<0.9
2	MG	A	402	1/1	0.98	0.13	19,19,19,19	0
2	MG	B	401	1/1	1.00	0.16	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.