



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 01:57 AM GMT

PDB ID : 2EZ6
Title : Crystal structure of Aquifex aeolicus RNase III (D44N) complexed with product of double-stranded RNA processing
Authors : Gan, J.; Tropea, J.E.; Austin, B.P.; Court, D.L.; Waugh, D.S.; Ji, X.
Deposited on : 2005-11-10
Resolution : 2.05 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

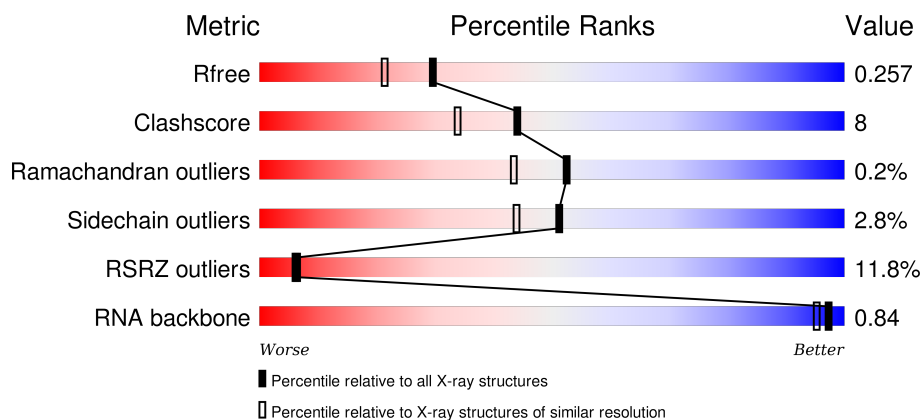
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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}	91344	1192 (2.04-2.04)
Clashscore	102246	1269 (2.04-2.04)
Ramachandran outliers	100387	1258 (2.04-2.04)
Sidechain outliers	100360	1258 (2.04-2.04)
RSRZ outliers	91569	1194 (2.04-2.04)
RNA backbone	2183	1014 (2.76-1.32)

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	C	28	<div> <div style="width: 68%;"></div> <div style="width: 32%;"></div> </div>
1	D	28	<div> <div style="width: 82%;"></div> <div style="width: 18%;"></div> </div>
2	A	221	<div> <div style="width: 10%;"></div> <div style="width: 74%;"></div> <div style="width: 24%;"></div> <div style="width: 2%;"></div> </div>
2	B	221	<div> <div style="width: 16%;"></div> <div style="width: 71%;"></div> <div style="width: 26%;"></div> <div style="width: 2%;"></div> </div>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5136 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 RNA chain called 28-MER.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	C	28	Total	C	N	O	P	0	0	0
			598	267	106	197	28			
1	D	28	Total	C	N	O	P	0	0	0
			598	267	106	197	28			

- Molecule 2 is a protein called Ribonuclease III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	218	Total	C	N	O	S	0	0	0
			1820	1185	305	329	1			
2	B	218	Total	C	N	O	S	0	0	0
			1820	1185	305	329	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	44	ASN	ASP	ENGINEERED	UNP O67082
B	44	ASN	ASP	ENGINEERED	UNP O67082

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	119	Total	O	0	0
			119	119		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	72	Total 72	O 72	0	0
4	C	60	Total 60	O 60	0	0
4	D	47	Total 47	O 47	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 errors 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: 28-MER

Chain C: 



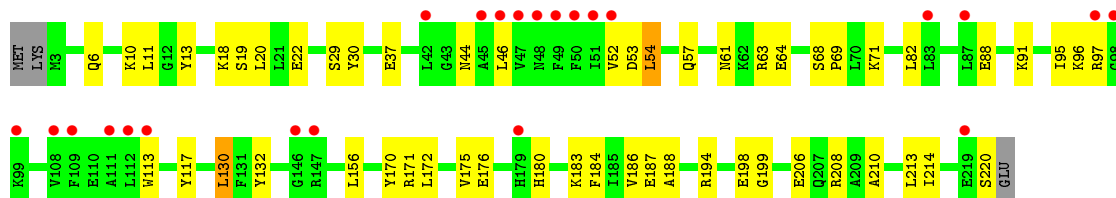
- Molecule 1: 28-MER

Chain D: 



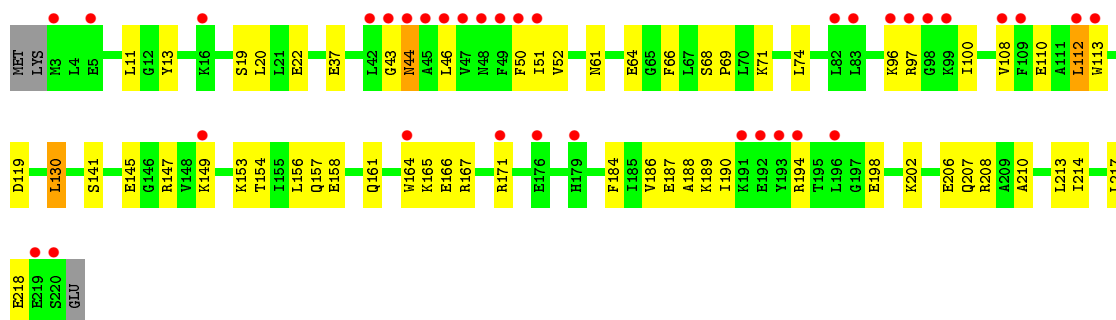
- Molecule 2: Ribonuclease III

Chain A: 



- Molecule 2: Ribonuclease III

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	63.84Å 50.98Å 113.75Å 90.00° 104.47° 90.00°	Depositor
Resolution (Å)	29.84 – 2.05 29.84 – 2.06	Depositor EDS
% Data completeness (in resolution range)	86.8 (29.84-2.05) 86.9 (29.84-2.06)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.71 (at 2.06Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.205 , 0.258 0.207 , 0.257	Depositor DCC
R_{free} test set	1932 reflections (4.99%)	DCC
Wilson B-factor (Å ²)	38.3	Xtriage
Anisotropy	0.143	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 60.9	EDS
Estimated twinning fraction	0.018 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	2 of 40198 reflections (0.005%)	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5136	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.46% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: 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	C	0.45	1/668 (0.1%)	0.71	0/1037
1	D	0.44	1/668 (0.1%)	0.71	0/1037
2	A	0.38	0/1855	0.58	1/2482 (0.0%)
2	B	0.34	0/1855	0.56	1/2482 (0.0%)
All	All	0.38	2/5046 (0.0%)	0.61	2/7038 (0.0%)

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	C	0	1
1	D	0	1
All	All	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1	A	OP3-P	-7.25	1.52	1.61
1	C	1	A	OP3-P	-7.22	1.52	1.61

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	113	TRP	CA-CB-CG	-5.24	103.75	113.70
2	B	113	TRP	CA-CB-CG	-5.06	104.09	113.70

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	12	G	Sidechain
1	D	12	G	Sidechain

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	C	598	0	301	5	0
1	D	598	0	301	2	0
2	A	1820	0	1882	34	0
2	B	1820	0	1882	40	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	119	0	0	1	0
4	B	72	0	0	2	0
4	C	60	0	0	0	0
4	D	47	0	0	0	0
All	All	5136	0	4366	74	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 8.

All (74) 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)
2:B:214:ILE:HG22	2:B:218:GLU:OE2	1.78	0.84
2:A:176:GLU:HG3	4:A:597:HOH:O	1.88	0.74
2:B:141:SER:O	2:B:145:GLU:HG2	1.93	0.69
2:B:154:THR:O	2:B:158:GLU:HG3	1.93	0.67
2:A:172:LEU:HD21	2:A:175:VAL:CG2	2.30	0.62
2:A:54:LEU:HD13	2:A:132:TYR:CZ	2.35	0.62
2:B:71:LYS:HE2	4:B:531:HOH:O	2.01	0.60
2:A:68:SER:HB2	2:A:69:PRO:HD3	1.84	0.59
2:B:189:LYS:HG3	2:B:194:ARG:HG2	1.83	0.59
2:B:210:ALA:O	2:B:214:ILE:HG13	2.02	0.59
2:B:44:ASN:C	2:B:44:ASN:HD22	2.05	0.59
1:D:2:A:H5"	2:A:64:GLU:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:15:A:H2'	1:C:16:G:O4'	2.03	0.57
2:B:108:VAL:O	2:B:112:LEU:HB2	2.05	0.57
1:C:2:A:H5''	2:B:64:GLU:HB3	1.88	0.56
2:B:61:ASN:HB3	2:B:66:PHE:CD2	2.40	0.56
2:A:53:ASP:O	2:A:57:GLN:HG3	2.07	0.55
2:A:13:TYR:HB2	2:A:130:LEU:HD11	1.87	0.54
2:A:19:SER:HA	2:A:22:GLU:OE1	2.07	0.54
2:B:184:PHE:O	2:B:198:GLU:HA	2.08	0.53
2:A:171:ARG:O	2:A:186:VAL:HG13	2.09	0.53
2:A:30:TYR:CD2	2:A:96:LYS:HE3	2.44	0.52
2:B:68:SER:HB2	2:B:69:PRO:HD3	1.91	0.51
1:C:7:C:O2	2:A:180:HIS:HB3	2.10	0.51
2:A:64:GLU:HG3	2:B:37:GLU:OE2	2.12	0.50
2:A:18:LYS:O	2:A:22:GLU:HG3	2.12	0.50
2:B:188:ALA:O	2:B:194:ARG:HA	2.12	0.49
2:A:29:SER:OG	2:A:95:ILE:HG13	2.13	0.49
2:A:186:VAL:HG12	2:A:187:GLU:N	2.27	0.49
2:B:202:LYS:O	2:B:206:GLU:HG3	2.13	0.49
2:B:164:TRP:O	2:B:166:GLU:HG3	2.13	0.48
2:B:186:VAL:HG12	2:B:187:GLU:N	2.29	0.48
2:A:184:PHE:O	2:A:198:GLU:HA	2.12	0.48
2:A:52:VAL:CG2	2:A:71:LYS:HD2	2.44	0.48
2:A:210:ALA:O	2:A:214:ILE:HG13	2.14	0.48
1:D:15:A:H2'	1:D:16:G:O4'	2.14	0.48
2:A:52:VAL:HG22	2:A:71:LYS:HD2	1.95	0.47
2:B:43:GLY:HA3	2:B:110:GLU:O	2.14	0.47
2:A:183:LYS:HE3	2:A:198:GLU:OE2	2.13	0.47
2:B:46:LEU:HG	2:B:50:PHE:CZ	2.50	0.47
2:B:156:LEU:HD21	2:B:213:LEU:HD23	1.96	0.46
2:B:51:ILE:HD13	2:B:74:LEU:O	2.15	0.46
2:A:6:GLN:O	2:A:10:LYS:HG3	2.16	0.46
2:B:20:LEU:HD23	2:B:119:ASP:HB2	1.99	0.45
2:A:37:GLU:OE2	2:B:64:GLU:HG3	2.16	0.44
2:B:190:ILE:HG23	2:B:190:ILE:O	2.18	0.44
2:B:96:LYS:HB3	2:B:97:ARG:NH1	2.33	0.44
2:B:190:ILE:HG22	2:B:213:LEU:HD21	2.00	0.44
2:A:88:GLU:HB3	2:A:91:LYS:HE3	2.00	0.44
2:B:213:LEU:O	2:B:217:LEU:HG	2.18	0.44
2:B:19:SER:HA	2:B:22:GLU:HG2	2.00	0.43
2:A:186:VAL:HG11	2:A:206:GLU:HG2	2.01	0.43
2:B:157:GLN:O	2:B:161:GLN:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:147:ARG:CZ	2:B:149:LYS:HB3	2.49	0.43
2:B:71:LYS:NZ	4:B:573:HOH:O	2.51	0.43
2:A:156:LEU:HD21	2:A:213:LEU:HD23	2.01	0.43
2:A:170:TYR:HA	2:A:187:GLU:O	2.18	0.42
2:B:13:TYR:HB2	2:B:130:LEU:HD11	2.01	0.42
2:B:52:VAL:HG22	2:B:71:LYS:HD2	2.01	0.42
2:A:61:ASN:HD21	2:A:63:ARG:HD2	1.84	0.42
1:C:11:C:C1'	2:A:97:ARG:HE	2.33	0.41
2:A:68:SER:CB	2:A:69:PRO:HD3	2.50	0.41
2:B:186:VAL:HG11	2:B:206:GLU:HG2	2.01	0.41
2:A:188:ALA:O	2:A:194:ARG:HA	2.21	0.41
2:B:11:LEU:HD21	2:B:112:LEU:CD2	2.51	0.41
2:A:199:GLY:HA2	2:A:208:ARG:HH21	1.86	0.41
2:A:96:LYS:HB3	2:A:97:ARG:NH1	2.36	0.41
2:B:171:ARG:O	2:B:186:VAL:HG13	2.20	0.41
1:C:24:U:H4'	2:B:167:ARG:NH1	2.37	0.40
2:B:161:GLN:O	2:B:165:LYS:HA	2.22	0.40
2:A:46:LEU:HD21	2:A:117:TYR:HB2	2.03	0.40
2:B:153:LYS:HG3	2:B:207:GLN:NE2	2.36	0.40
2:B:11:LEU:HD21	2:B:112:LEU:HD21	2.03	0.40
2:A:96:LYS:HB3	2:A:97:ARG:HH12	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	
2	A	216/221 (98%)	209 (97%)	7 (3%)	0	100	100
2	B	216/221 (98%)	209 (97%)	6 (3%)	1 (0%)	34	22
All	All	432/442 (98%)	418 (97%)	13 (3%)	1 (0%)	52	43

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	100	ILE

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	
2	A	195/198 (98%)	188 (96%)	7 (4%)	42	34
2	B	195/198 (98%)	191 (98%)	4 (2%)	61	56
All	All	390/396 (98%)	379 (97%)	11 (3%)	51	44

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

Mol	Chain	Res	Type
2	A	11	LEU
2	A	20	LEU
2	A	44	ASN
2	A	54	LEU
2	A	82	LEU
2	A	130	LEU
2	A	220	SER
2	B	44	ASN
2	B	112	LEU
2	B	130	LEU
2	B	208	ARG

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

Mol	Chain	Res	Type
2	A	6	GLN
2	A	44	ASN
2	A	85	GLN
2	B	6	GLN
2	B	44	ASN

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Mol	Chain	Res	Type
2	B	85	GLN
2	B	207	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	C	27/28 (96%)	1 (3%)	0
1	D	27/28 (96%)	0	0
All	All	54/56 (96%)	1 (1%)	0

All (1) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	C	13	C

There are no RNA pucker outliers to report.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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

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	C	28/28 (100%)	-0.34	0	100 100	38, 44, 70, 71	0
1	D	28/28 (100%)	-0.52	0	100 100	35, 45, 56, 63	0
2	A	218/221 (98%)	0.45	23 (10%)	8 9	27, 41, 68, 92	0
2	B	218/221 (98%)	0.65	35 (16%)	3 2	30, 49, 80, 97	0
All	All	492/498 (98%)	0.44	58 (11%)	6 6	27, 45, 72, 97	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	99	LYS	4.8
2	B	49	PHE	4.3
2	A	98	GLY	4.3
2	B	47	VAL	4.3
2	B	46	LEU	4.2
2	A	49	PHE	4.2
2	A	97	ARG	4.0
2	A	146	GLY	3.9
2	A	46	LEU	3.7
2	A	47	VAL	3.7
2	B	45	ALA	3.5
2	B	97	ARG	3.4
2	B	16	LYS	3.3
2	B	192	GLU	3.1
2	B	48	ASN	3.1
2	B	193	TYR	3.0
2	B	43	GLY	2.9
2	B	42	LEU	2.9
2	A	50	PHE	2.9
2	A	147	ARG	2.9
2	B	179	HIS	2.9

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Mol	Chain	Res	Type	RSRZ
2	B	164	TRP	2.9
2	A	51	ILE	2.8
2	A	219	GLU	2.8
2	A	45	ALA	2.8
2	B	194	ARG	2.7
2	A	111	ALA	2.7
2	B	109	PHE	2.7
2	B	112	LEU	2.6
2	B	96	LYS	2.6
2	B	220	SER	2.6
2	A	109	PHE	2.5
2	A	52	VAL	2.5
2	B	51	ILE	2.5
2	A	42	LEU	2.4
2	B	99	LYS	2.4
2	A	83	LEU	2.4
2	B	149	LYS	2.4
2	A	48	ASN	2.3
2	B	113	TRP	2.3
2	B	83	LEU	2.3
2	B	191	LYS	2.3
2	A	108	VAL	2.3
2	B	219	GLU	2.3
2	B	3	MET	2.3
2	B	176	GLU	2.2
2	B	196	LEU	2.2
2	A	87	LEU	2.2
2	B	44	ASN	2.2
2	A	179	HIS	2.2
2	B	108	VAL	2.2
2	A	112	LEU	2.2
2	B	50	PHE	2.2
2	B	5	GLU	2.1
2	A	113	TRP	2.1
2	B	82	LEU	2.1
2	B	98	GLY	2.0
2	B	171	ARG	2.0

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

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
3	MG	B	502	1/1	0.90	0.07	-	51,51,51,51	0
3	MG	A	501	1/1	0.82	0.14	-	62,62,62,62	0

6.5 Other polymers [i](#)

There are no such residues in this entry.