



Full wwPDB X-ray Structure Validation Report i

Feb 1, 2016 – 01:34 PM GMT

PDB ID : 3U3G

Title : Structure of LC11-RNase H1 Isolated from Compost by Metagenomic Approach: Insight into the Structural Bases for Unusual Enzymatic Properties of Sto-RNase H1

Authors : Nguyen, T.N.; Angkawidjaja, C.; Kanaya, E.; Koga, Y.; Takano, K.; Kanaya, S.

Deposited on : 2011-10-05

Resolution : 1.40 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 i symbol.

The following versions of software and data (see [references](#) ①) 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

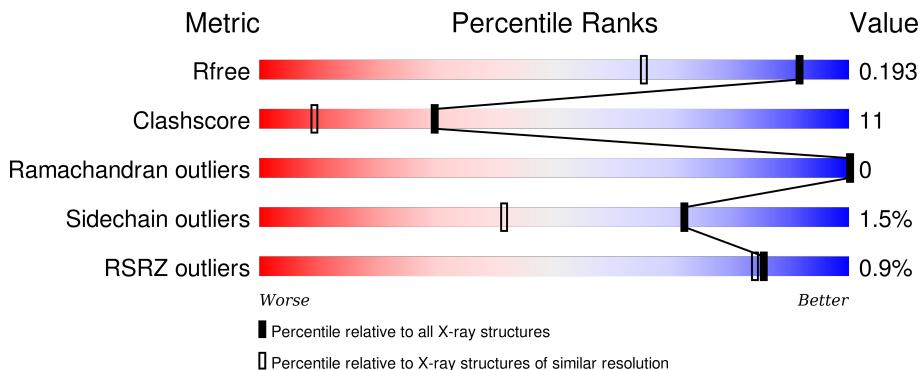
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

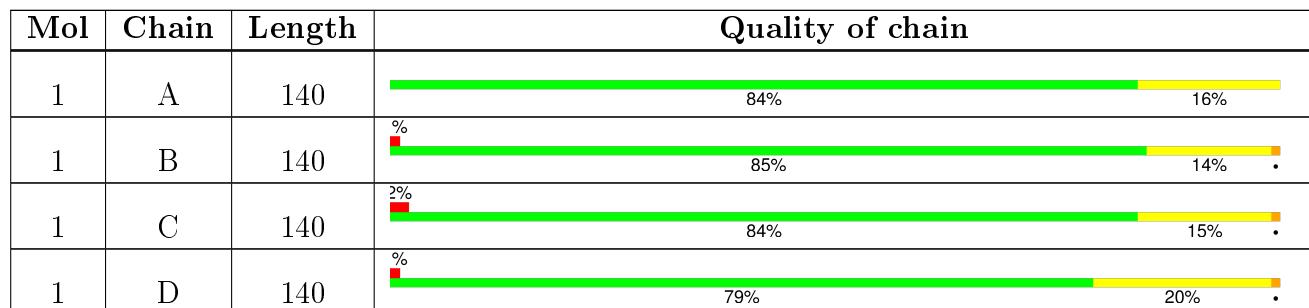
The reported resolution of this entry is 1.40 Å.

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	1199 (1.40-1.40)
Clashscore	102246	1295 (1.40-1.40)
Ramachandran outliers	100387	1259 (1.40-1.40)
Sidechain outliers	100360	1258 (1.40-1.40)
RSRZ outliers	91569	1198 (1.40-1.40)

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 <=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.



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	CL	A	201	-	-	X	X
3	UNL	A	202	-	-	-	X

2 Entry composition [\(i\)](#)

There are 4 unique types of molecules in this entry. The entry contains 5341 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 Ribonuclease H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	D	140	Total	C	N	O	S	0	2	0
			1105	696	189	214	6			
1	B	140	Total	C	N	O	S	0	1	0
			1106	696	190	214	6			
1	C	140	Total	C	N	O	S	0	3	0
			1111	698	190	216	7			
1	A	140	Total	C	N	O	S	0	2	0
			1104	694	189	215	6			

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Cl	0	0
			1	1		
2	C	1	Total	Cl	0	0
			1	1		

- Molecule 3 is UNKNOWN LIGAND (three-letter code: UNL) (formula:).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			9	7	2		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	193	Total	O	0	0
			193	193		
4	B	235	Total	O	0	0
			235	235		
4	C	217	Total	O	0	0
			217	217		

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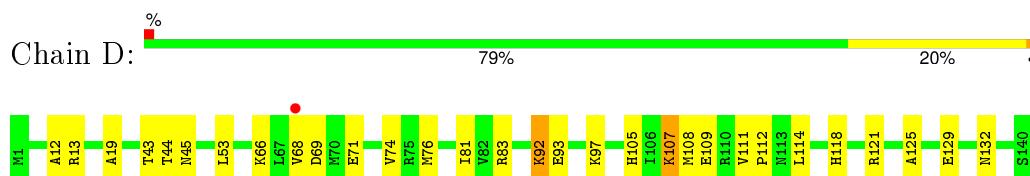
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	259	Total O 259 259	0	0

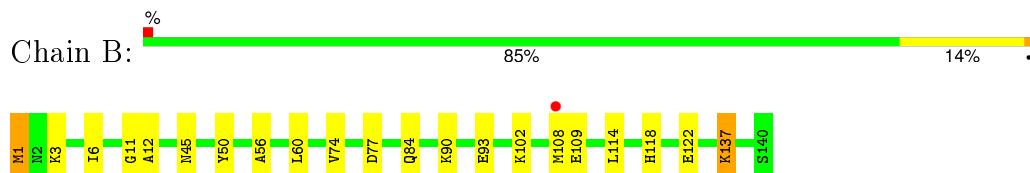
3 Residue-property plots [\(i\)](#)

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.

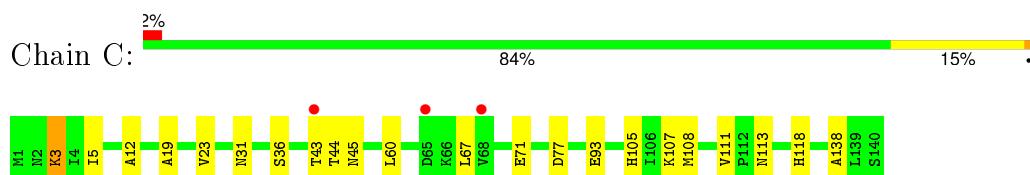
- Molecule 1: Ribonuclease H



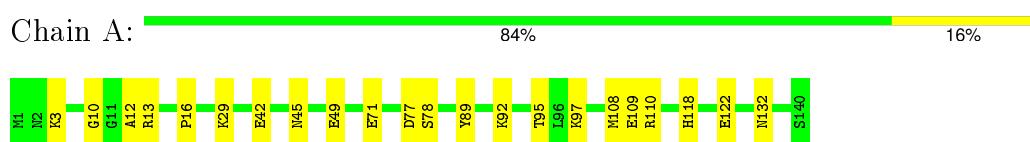
- Molecule 1: Ribonuclease H



- Molecule 1: Ribonuclease H



- Molecule 1: Ribonuclease H



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.31Å 104.89Å 57.21Å 90.00° 110.34° 90.00°	Depositor
Resolution (Å)	47.76 – 1.40 47.76 – 1.40	Depositor EDS
% Data completeness (in resolution range)	97.6 (47.76-1.40) 97.6 (47.76-1.40)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle^1$	2.55 (at 1.40Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R , R_{free}	0.172 , 0.192 0.172 , 0.193	Depositor DCC
R_{free} test set	5756 reflections (5.27%)	DCC
Wilson B-factor (Å ²)	11.5	Xtriage
Anisotropy	0.057	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 46.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	1 of 114984 reflections (0.001%)	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5341	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.25% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: UNL, CL

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	0.52	0/1124	0.58	0/1513
1	B	0.43	0/1121	0.59	0/1509
1	C	0.62	1/1131 (0.1%)	0.62	1/1521 (0.1%)
1	D	0.54	1/1125 (0.1%)	0.60	0/1514
All	All	0.53	2/4501 (0.0%)	0.60	1/6057 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	111	VAL	CB-CG2	-6.61	1.39	1.52
1	D	111	VAL	CB-CG1	-5.60	1.41	1.52

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	77	ASP	CB-CG-OD2	5.07	122.86	118.30

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	1104	0	1127	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	1106	0	1122	19	0
1	C	1111	0	1133	28	0
1	D	1105	0	1131	34	0
2	A	1	0	0	2	0
2	C	1	0	0	0	0
3	A	9	0	0	0	0
4	A	259	0	0	12	0
4	B	235	0	0	6	0
4	C	217	0	0	14	0
4	D	193	0	0	18	0
All	All	5341	0	4513	100	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 11.

All (100) 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:D:93:GLU:HG3	4:D:364:HOH:O	1.44	1.18
1:A:109:GLU:OE1	1:A:110:ARG:NH1	1.77	1.15
1:C:107:LYS:HE3	1:C:108[B]:MET:HE3	1.32	1.08
1:B:93:GLU:HG2	4:B:411:HOH:O	1.54	1.05
1:D:13:ARG:HH21	1:D:132:ASN:HD22	1.12	0.91
1:B:108:MET:HE2	1:B:109:GLU:HG3	1.53	0.89
1:C:107:LYS:HE3	1:C:108[B]:MET:CE	2.04	0.87
1:C:108[B]:MET:HG2	4:C:355:HOH:O	1.73	0.86
1:B:108:MET:CE	1:B:109:GLU:HG3	2.05	0.86
1:D:74:VAL:HG23	1:D:114[A]:LEU:HD11	1.59	0.84
1:D:129:GLU:HG2	4:D:382:HOH:O	1.77	0.83
1:A:122:GLU:HG2	4:A:381:HOH:O	1.78	0.82
1:B:102:LYS:HD2	4:B:320:HOH:O	1.79	0.81
1:C:107:LYS:CG	4:C:514:HOH:O	2.28	0.80
1:D:108:MET:SD	4:D:258:HOH:O	2.40	0.80
1:C:3:LYS:HD2	1:C:5:ILE:HD11	1.63	0.79
1:D:107:LYS:HD3	4:D:304:HOH:O	1.80	0.79
1:D:92:LYS:HD3	4:B:375:HOH:O	1.82	0.78
1:C:107:LYS:CE	1:C:108[B]:MET:HE3	2.14	0.78
1:D:105:HIS:HD2	4:D:246:HOH:O	1.66	0.77
1:C:107:LYS:CD	4:C:514:HOH:O	2.31	0.77
1:D:109:GLU:OE1	4:D:388:HOH:O	2.04	0.76
1:C:107:LYS:HG2	4:C:514:HOH:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:LYS:HE2	4:B:423:HOH:O	1.87	0.74
1:C:107:LYS:HD2	4:C:514:HOH:O	1.88	0.72
1:D:53:LEU:HD11	1:D:76:MET:HE1	1.71	0.71
1:C:107:LYS:CE	1:C:108[B]:MET:CE	2.69	0.70
1:B:50[B]:TYR:OH	1:B:84:GLN:NE2	2.28	0.67
1:C:105:HIS:HD2	4:C:379:HOH:O	1.76	0.66
1:C:71:GLU:HG2	4:C:494:HOH:O	1.94	0.66
1:D:71:GLU:CG	4:D:349:HOH:O	2.43	0.66
1:C:107:LYS:HE2	4:C:355:HOH:O	1.96	0.66
1:D:125:ALA:O	1:D:129:GLU:HG3	1.96	0.66
1:D:118:HIS:HD2	4:D:316:HOH:O	1.80	0.63
1:D:45:ASN:ND2	4:D:383:HOH:O	2.22	0.63
1:B:12:ALA:H	1:B:45:ASN:HD22	1.45	0.63
1:D:71:GLU:HG2	4:D:349:HOH:O	1.99	0.61
1:B:108:MET:CE	1:B:109:GLU:CG	2.78	0.60
1:B:3:LYS:HD2	4:B:393:HOH:O	2.02	0.60
1:A:10:GLY:O	2:A:201:CL:CL	2.58	0.59
1:D:108:MET:CE	4:D:258:HOH:O	2.51	0.58
1:A:108:MET:HG2	4:A:373:HOH:O	2.04	0.58
1:C:93:GLU:HG3	4:C:320:HOH:O	2.04	0.56
1:A:12:ALA:H	1:A:45:ASN:HD22	1.52	0.56
1:D:107:LYS:HG3	1:D:114[A]:LEU:HD23	1.88	0.56
1:A:13:ARG:HH21	1:A:132:ASN:HD22	1.53	0.56
1:A:95[B]:THR:HG23	4:A:430:HOH:O	2.04	0.56
1:D:97:LYS:HE2	4:D:355:HOH:O	2.06	0.54
1:C:118:HIS:HD2	4:C:407:HOH:O	1.90	0.54
1:A:3:LYS:NZ	1:A:71:GLU:OE1	2.32	0.53
1:A:97:LYS:HE3	4:A:366:HOH:O	2.09	0.53
1:D:69:ASP:HA	4:D:384:HOH:O	2.08	0.53
1:B:122:GLU:H	1:B:122:GLU:CD	2.12	0.53
1:A:108:MET:CG	4:A:373:HOH:O	2.58	0.52
1:D:121:ARG:NH1	1:B:109:GLU:OE2	2.43	0.51
1:D:43:THR:HG23	1:D:44:THR:O	2.11	0.51
1:C:43:THR:HG23	1:C:44:THR:O	2.11	0.51
1:A:122:GLU:HG3	4:A:534:HOH:O	2.09	0.51
1:C:138:ALA:HA	4:C:474:HOH:O	2.09	0.51
1:A:29:LYS:HD3	4:A:537:HOH:O	2.10	0.51
1:A:49:GLU:OE2	2:A:201:CL:CL	2.66	0.50
1:C:93:GLU:HG2	4:C:454:HOH:O	2.11	0.50
1:B:6:ILE:HG21	1:B:56:ALA:HB1	1.92	0.50
1:B:118:HIS:HD2	4:B:352:HOH:O	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:HIS:HD2	4:A:507:HOH:O	1.94	0.50
1:A:95[B]:THR:HG21	4:A:513:HOH:O	2.14	0.48
1:D:13:ARG:HH21	1:D:132:ASN:ND2	1.94	0.48
1:A:97:LYS:CE	4:A:366:HOH:O	2.61	0.48
1:D:12:ALA:H	1:D:45:ASN:ND2	2.12	0.48
1:C:12:ALA:H	1:C:45:ASN:ND2	2.12	0.47
1:D:13:ARG:NH2	1:D:132:ASN:HD22	1.96	0.46
1:A:108:MET:HG3	4:A:460:HOH:O	2.14	0.46
1:C:19:ALA:CB	1:C:43:THR:HG22	2.45	0.46
1:C:31:ASN:ND2	4:C:406:HOH:O	2.48	0.46
1:B:137:LYS:HE2	1:B:137:LYS:HB2	1.27	0.46
1:D:71:GLU:HG3	4:D:349:HOH:O	2.14	0.45
1:A:16:PRO:HB2	1:A:42[B]:GLU:HG2	1.97	0.45
1:D:66:LYS:HG3	1:A:89:TYR:HD1	1.82	0.45
1:B:11:GLY:HA2	1:B:45:ASN:ND2	2.33	0.44
1:A:77:ASP:O	1:A:118:HIS:HE1	2.00	0.44
1:B:77:ASP:O	1:B:118:HIS:HE1	2.00	0.44
1:C:107:LYS:CE	1:C:108[B]:MET:HE2	2.47	0.44
1:D:68:VAL:O	1:D:69:ASP:HB2	2.18	0.44
1:B:122:GLU:CD	1:B:122:GLU:N	2.71	0.44
1:D:118:HIS:HE1	4:D:253:HOH:O	2.01	0.44
1:C:23:VAL:HB	1:C:36:SER:HB2	2.00	0.44
1:C:60:LEU:O	1:C:67:LEU:HD11	2.19	0.43
1:C:12:ALA:H	1:C:45:ASN:HD22	1.67	0.43
1:D:107:LYS:HG3	1:D:114[A]:LEU:CD2	2.49	0.42
1:C:113:ASN:HB2	4:C:368:HOH:O	2.18	0.42
1:D:81:ILE:HD11	4:D:256:HOH:O	2.19	0.42
1:B:74:VAL:HG23	1:B:114:LEU:HD11	2.01	0.42
1:D:83:ARG:NH2	4:D:316:HOH:O	2.53	0.42
1:A:78:SER:OG	4:A:557:HOH:O	2.22	0.42
1:B:1:MET:HG2	1:B:1:MET:O	2.18	0.42
1:D:19:ALA:CB	1:D:43:THR:HG22	2.50	0.41
1:D:107:LYS:NZ	1:D:112:PRO:HA	2.36	0.41
1:D:129:GLU:HB2	4:D:305:HOH:O	2.20	0.41
1:C:43:THR:HG23	1:C:44:THR:N	2.36	0.41
1:C:3:LYS:CD	1:C:5:ILE:HD11	2.41	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	140/140 (100%)	139 (99%)	1 (1%)	0	100 100
1	B	139/140 (99%)	138 (99%)	1 (1%)	0	100 100
1	C	141/140 (101%)	140 (99%)	1 (1%)	0	100 100
1	D	140/140 (100%)	140 (100%)	0	0	100 100
All	All	560/560 (100%)	557 (100%)	3 (0%)	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	120/118 (102%)	119 (99%)	1 (1%)	86 67
1	B	119/118 (101%)	116 (98%)	3 (2%)	55 17
1	C	121/118 (102%)	120 (99%)	1 (1%)	86 67
1	D	120/118 (102%)	118 (98%)	2 (2%)	68 35
All	All	480/472 (102%)	473 (98%)	7 (2%)	72 41

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	92	LYS
1	D	107	LYS

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Mol	Chain	Res	Type
1	B	1	MET
1	B	60	LEU
1	B	137	LYS
1	C	3	LYS
1	A	92	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	2	ASN
1	D	15	ASN
1	D	31	ASN
1	D	45	ASN
1	D	105	HIS
1	D	118	HIS
1	D	132	ASN
1	B	45	ASN
1	B	61	GLN
1	B	84	GLN
1	B	118	HIS
1	C	2	ASN
1	C	15	ASN
1	C	31	ASN
1	C	45	ASN
1	C	105	HIS
1	C	118	HIS
1	A	45	ASN
1	A	61	GLN
1	A	118	HIS
1	A	132	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 3 ligands modelled in this entry, 1 is unknown and 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 [\(i\)](#)

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	140/140 (100%)	-0.36	0 [100] [100]	6, 10, 22, 27	0
1	B	140/140 (100%)	-0.30	1 (0%) [89] [87]	7, 11, 24, 34	0
1	C	140/140 (100%)	-0.17	3 (2%) [67] [64]	6, 11, 28, 39	1 (0%)
1	D	140/140 (100%)	-0.08	1 (0%) [89] [87]	7, 13, 29, 34	0
All	All	560/560 (100%)	-0.23	5 (0%) [85] [84]	6, 11, 26, 39	1 (0%)

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	68	VAL	5.8
1	D	68	VAL	4.3
1	B	108	MET	2.5
1	C	65	ASP	2.3
1	C	43	THR	2.2

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. 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(Å ²)	Q<0.9
2	CL	A	201	1/1	0.93	0.10	2.98	17,17,17,17	0
3	UNL	A	202	9/-	0.95	0.09	2.61	16,17,19,19	0
2	CL	C	201	1/1	0.99	0.05	-	18,18,18,18	0

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

There are no such residues in this entry.