



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 06:11 PM UTC

PDB ID : 1I5L / pdb_00001i5l
Title : CRYSTAL STRUCTURE OF AN SM-LIKE PROTEIN (AF-SM1) FROM
ARCHAEOGLOBUS FULGIDUS COMPLEXED WITH SHORT POLY-U
RNA
Authors : Toro, I.; Thore, S.; Mayer, C.; Basquin, J.; Seraphin, B.; Suck, D.
Deposited on : 2001-02-28
Resolution : 2.75 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

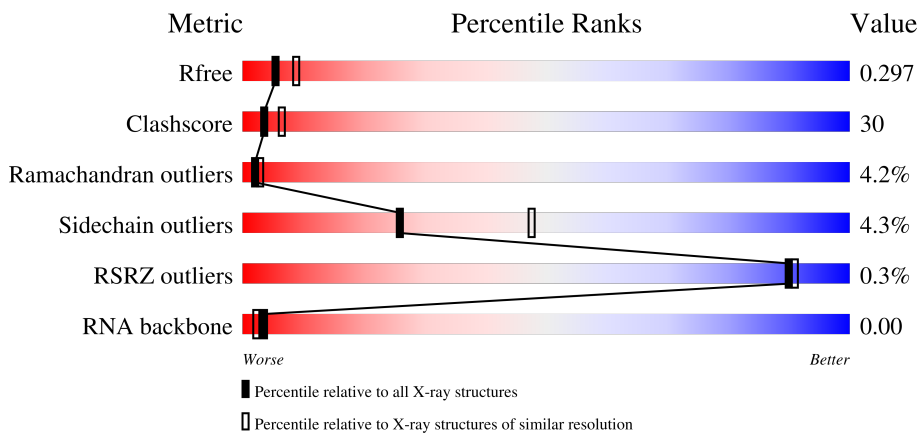
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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.




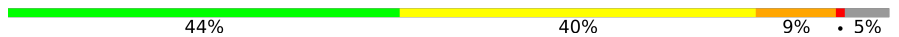




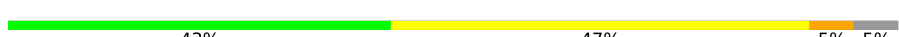



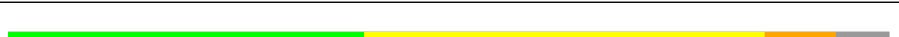

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1009 (2.76-2.76)
Clashscore	190562	1044 (2.76-2.76)
Ramachandran outliers	187476	1024 (2.76-2.76)
Sidechain outliers	187428	1024 (2.76-2.76)
RSRZ outliers	180081	1009 (2.76-2.76)
RNA backbone	3983	1179 (3.00-2.52)

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.

Mol	Chain	Length	Quality of chain
1	U	3	 67% 33%
1	Y	3	 33% 67%
2	A	77	 49% 32% 10% 8%
2	B	77	 40% 47% 6% 5%

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Mol	Chain	Length	Quality of chain
2	C	77	
2	D	77	
2	E	77	
2	F	77	
2	G	77	
2	H	77	
2	I	77	
2	J	77	
2	K	77	
2	L	77	
2	M	77	
2	N	77	

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
3	URI	A	201	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 8036 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 5'-R(*UP*UP*U)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	U	3	Total 57	C 27	N 6	O 22	P 2	0	0	0
1	Y	3	Total 57	C 27	N 6	O 22	P 2	0	0	0

- Molecule 2 is a protein called PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1.

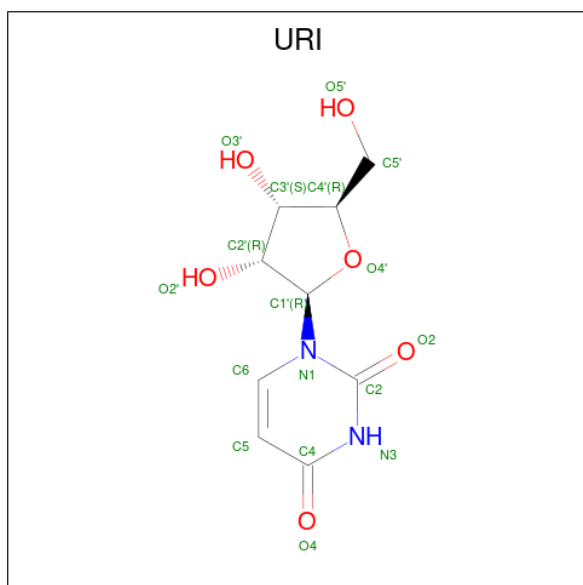
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	A	71	Total 549	C 347	N 101	O 100	S 1	0	0	0
2	B	73	Total 560	C 354	N 103	O 102	S 1	0	0	0
2	C	74	Total 571	C 362	N 104	O 103	S 2	0	0	0
2	D	73	Total 563	C 357	N 103	O 102	S 1	0	0	0
2	E	71	Total 549	C 347	N 101	O 100	S 1	0	0	0
2	F	72	Total 556	C 352	N 102	O 101	S 1	0	0	0
2	G	72	Total 556	C 352	N 102	O 101	S 1	0	0	0
2	H	72	Total 556	C 352	N 102	O 101	S 1	0	0	0
2	I	73	Total 564	C 357	N 103	O 102	S 2	0	0	0
2	J	72	Total 556	C 352	N 102	O 101	S 1	0	0	0
2	K	72	Total 556	C 352	N 102	O 101	S 1	0	0	0
2	L	72	Total 556	C 352	N 102	O 101	S 1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	M	72	Total	C	N	O	S	0	0	0
			556	352	102	101	1			
2	N	71	Total	C	N	O	S	0	0	0
			549	347	101	100	1			

- Molecule 3 is URIDINE (CCD ID: URI) (formula: C₉H₁₂N₂O₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
3	A	1	Total	C	N	O	0	0
			17	9	2	6		
3	B	1	Total	C	N	O	0	0
			17	9	2	6		
3	C	1	Total	C	N	O	0	0
			17	9	2	6		
3	H	1	Total	C	N	O	0	0
			17	9	2	6		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
4	Y	1	Total	O	0	0
			1	1		
4	B	1	Total	O	0	0
			1	1		
4	C	3	Total	O	0	0
			3	3		

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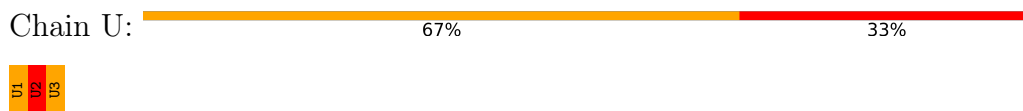
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	4	Total O 4 4	0	0
4	E	4	Total O 4 4	0	0
4	F	2	Total O 2 2	0	0
4	G	8	Total O 8 8	0	0
4	H	4	Total O 4 4	0	0
4	I	5	Total O 5 5	0	0
4	J	4	Total O 4 4	0	0
4	K	4	Total O 4 4	0	0
4	L	2	Total O 2 2	0	0
4	M	7	Total O 7 7	0	0
4	N	8	Total O 8 8	0	0

3 Residue-property plots [i](#)

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.

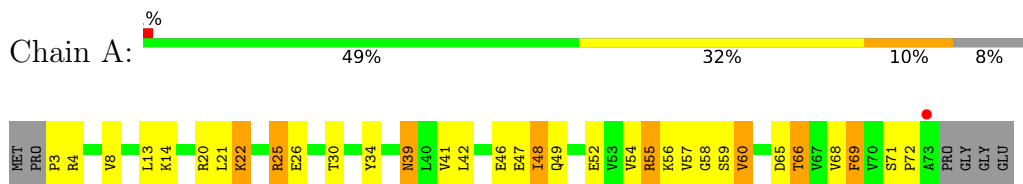
- Molecule 1: 5'-R(*UP*UP*U)-3'



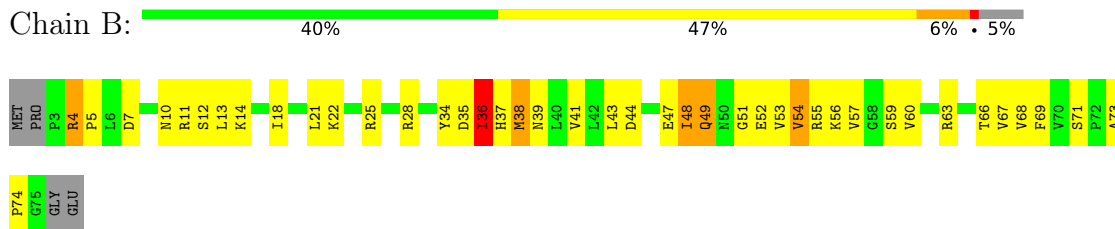
- Molecule 1: 5'-R(*UP*UP*U)-3'



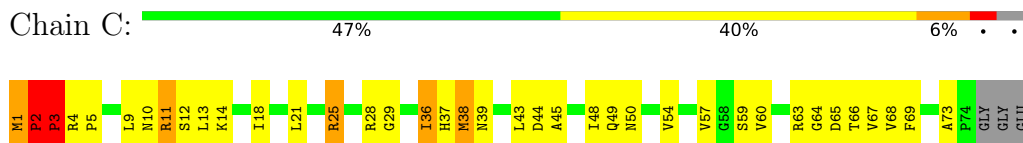
- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1

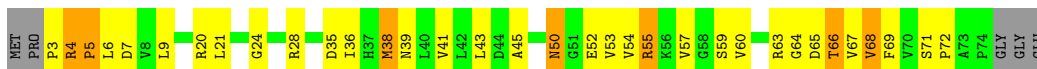


- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1

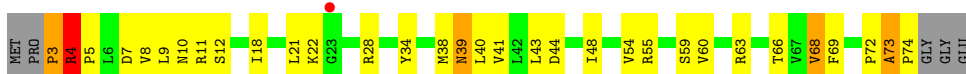




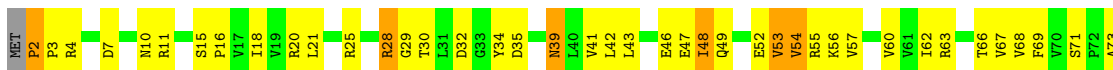
- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



- Molecule 2: PUTATIVE SNRNP SM-LIKE PROTEIN AF-SM1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	69.86Å 130.44Å 70.05Å 90.00° 115.36° 90.00°	Depositor
Resolution (Å)	25.00 – 2.75 25.00 – 2.75	Depositor EDS
% Data completeness (in resolution range)	97.5 (25.00-2.75) 97.3 (25.00-2.75)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.82 (at 2.69Å)	Xtrriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.225 , 0.300 0.224 , 0.297	Depositor DCC
R_{free} test set	1469 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	74.8	Xtrriage
Anisotropy	0.258	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 51.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	0.208 for l,-k,h	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8036	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.19% 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:
URI

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	U	0.26	0/62	1.51	2/94 (2.1%)
1	Y	0.32	0/62	1.63	2/94 (2.1%)
2	A	0.55	0/556	1.11	4/751 (0.5%)
2	B	0.51	0/568	1.26	9/768 (1.2%)
2	C	0.63	1/580 (0.2%)	1.42	8/786 (1.0%)
2	D	0.50	0/572	1.04	3/775 (0.4%)
2	E	0.49	0/556	1.11	5/751 (0.7%)
2	F	0.51	0/564	1.07	4/763 (0.5%)
2	G	0.56	0/564	1.17	8/763 (1.0%)
2	H	0.53	0/564	1.15	8/763 (1.0%)
2	I	0.52	0/572	1.12	6/774 (0.8%)
2	J	0.73	2/564 (0.4%)	1.32	7/763 (0.9%)
2	K	0.53	0/564	1.03	3/763 (0.4%)
2	L	0.57	0/564	1.15	6/763 (0.8%)
2	M	0.52	0/564	1.17	10/763 (1.3%)
2	N	0.52	0/556	1.09	5/751 (0.7%)
All	All	0.55	3/8032 (0.0%)	1.17	90/10885 (0.8%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	48	ILE	N-CA	6.74	1.53	1.46
2	J	47	GLU	C-N	5.71	1.41	1.33
2	C	2	PRO	CA-C	5.36	1.57	1.52

The worst 5 of 90 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2	PRO	N-CA-C	18.84	133.69	110.70
2	J	50	ASN	CA-CB-CG	-11.56	101.04	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	3	PRO	N-CA-C	10.32	133.72	112.47
2	J	68	VAL	N-CA-C	-9.95	103.00	111.56
2	G	68	VAL	N-CA-C	-9.62	102.53	111.67

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	U	57	0	32	5	0
1	Y	57	0	32	6	0
2	A	549	0	576	42	0
2	B	560	0	586	45	0
2	C	571	0	601	51	0
2	D	563	0	590	51	0
2	E	549	0	576	34	0
2	F	556	0	583	51	0
2	G	556	0	583	42	0
2	H	556	0	583	31	0
2	I	564	0	594	48	0
2	J	556	0	583	41	0
2	K	556	0	583	35	0
2	L	556	0	583	25	0
2	M	556	0	583	35	0
2	N	549	0	576	21	0
3	A	17	0	12	6	0
3	B	17	0	12	4	0
3	C	17	0	12	5	0
3	H	17	0	12	1	0
4	B	1	0	0	0	0
4	C	3	0	0	0	0
4	D	4	0	0	1	0
4	E	4	0	0	0	0
4	F	2	0	0	0	0
4	G	8	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	H	4	0	0	1	0
4	I	5	0	0	0	0
4	J	4	0	0	1	0
4	K	4	0	0	1	0
4	L	2	0	0	0	0
4	M	7	0	0	2	0
4	N	8	0	0	1	0
4	Y	1	0	0	0	0
All	All	8036	0	8292	480	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 30.

The worst 5 of 480 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:C:2:PRO:HB2	2:C:3:PRO:CD	1.40	1.49
2:C:2:PRO:CB	2:C:3:PRO:HD3	1.45	1.41
2:C:2:PRO:CB	2:C:3:PRO:CD	1.97	1.38
1:U:3:U:H4'	3:A:201:URI:H5'2	1.23	1.09
2:H:73:ALA:HB1	2:H:74:PRO:HD2	1.30	1.07

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	69/77 (90%)	59 (86%)	9 (13%)	1 (1%)	9 17
2	B	71/77 (92%)	56 (79%)	10 (14%)	5 (7%)	1 1
2	C	72/77 (94%)	58 (81%)	10 (14%)	4 (6%)	1 2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D	71/77 (92%)	60 (84%)	9 (13%)	2 (3%)	4	6
2	E	69/77 (90%)	59 (86%)	8 (12%)	2 (3%)	3	6
2	F	70/77 (91%)	55 (79%)	9 (13%)	6 (9%)	0	0
2	G	70/77 (91%)	61 (87%)	6 (9%)	3 (4%)	2	3
2	H	70/77 (91%)	57 (81%)	9 (13%)	4 (6%)	1	2
2	I	71/77 (92%)	61 (86%)	8 (11%)	2 (3%)	4	6
2	J	70/77 (91%)	61 (87%)	8 (11%)	1 (1%)	9	17
2	K	70/77 (91%)	57 (81%)	8 (11%)	5 (7%)	1	1
2	L	70/77 (91%)	57 (81%)	9 (13%)	4 (6%)	1	2
2	M	70/77 (91%)	62 (89%)	7 (10%)	1 (1%)	9	17
2	N	69/77 (90%)	58 (84%)	10 (14%)	1 (1%)	9	17
All	All	982/1078 (91%)	821 (84%)	120 (12%)	41 (4%)	2	3

5 of 41 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	36	ILE
2	B	53	VAL
2	C	2	PRO
2	C	3	PRO
2	D	73	ALA

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	
2	A	62/66 (94%)	57 (92%)	5 (8%)	11	20
2	B	63/66 (96%)	62 (98%)	1 (2%)	55	73
2	C	65/66 (98%)	62 (95%)	3 (5%)	24	45
2	D	64/66 (97%)	59 (92%)	5 (8%)	11	21
2	E	62/66 (94%)	61 (98%)	1 (2%)	55	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	F	63/66 (96%)	57 (90%)	6 (10%)	8	16
2	G	63/66 (96%)	61 (97%)	2 (3%)	34	58
2	H	63/66 (96%)	61 (97%)	2 (3%)	34	58
2	I	64/66 (97%)	63 (98%)	1 (2%)	55	73
2	J	63/66 (96%)	61 (97%)	2 (3%)	34	58
2	K	63/66 (96%)	58 (92%)	5 (8%)	11	21
2	L	63/66 (96%)	61 (97%)	2 (3%)	34	58
2	M	63/66 (96%)	63 (100%)	0	100	100
2	N	62/66 (94%)	59 (95%)	3 (5%)	23	44
All	All	883/924 (96%)	845 (96%)	38 (4%)	26	47

5 of 38 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	K	4	ARG
2	N	4	ARG
2	K	5	PRO
2	K	66	THR
2	N	66	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 15 such sidechains are listed below:

Mol	Chain	Res	Type
2	I	49	GLN
2	M	50	ASN
2	I	50	ASN
2	N	50	ASN
2	K	50	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	U	3/3 (100%)	2 (66%)	2 (66%)
1	Y	3/3 (100%)	2 (66%)	2 (66%)
All	All	6/6 (100%)	4 (66%)	4 (66%)

All (4) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	U	2	U
1	U	3	U
1	Y	2	U
1	Y	3	U

All (4) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	U	1	U
1	U	2	U
1	Y	1	U
1	Y	2	U

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands 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
3	URI	C	301	-	18,18,18	0.30	0	26,26,26	0.73	1 (3%)
3	URI	A	201	-	18,18,18	0.24	0	26,26,26	0.76	1 (3%)
3	URI	B	101	-	18,18,18	0.28	0	26,26,26	0.47	0
3	URI	H	401	-	18,18,18	0.32	0	26,26,26	0.67	0

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	URI	C	301	-	-	4/6/22/22	0/2/2/2
3	URI	A	201	-	-	5/6/22/22	0/2/2/2
3	URI	B	101	-	-	3/6/22/22	0/2/2/2
3	URI	H	401	-	-	0/6/22/22	0/2/2/2

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	201	URI	O3'-C3'-C2'	-2.83	102.74	111.82
3	C	301	URI	O3'-C3'-C2'	-2.57	103.57	111.82

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	201	URI	C2'-C1'-N1-C6
3	B	101	URI	C3'-C4'-C5'-O5'
3	B	101	URI	O4'-C4'-C5'-O5'
3	A	201	URI	C2'-C1'-N1-C2
3	C	301	URI	C2'-C1'-N1-C6

There are no ring outliers.

4 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	301	URI	5	0
3	A	201	URI	6	0
3	B	101	URI	4	0
3	H	401	URI	1	0

5.7 Other polymers [i](#)

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 [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	U	3/3 (100%)	1.04	0 100 100	64, 64, 76, 81	3 (100%)
1	Y	3/3 (100%)	1.00	0 100 100	52, 52, 60, 83	3 (100%)
2	A	71/77 (92%)	-0.28	1 (1%) 73 73	42, 72, 118, 185	0
2	B	73/77 (94%)	-0.09	0 100 100	46, 84, 153, 180	0
2	C	74/77 (96%)	-0.25	0 100 100	50, 79, 138, 162	0
2	D	73/77 (94%)	-0.22	0 100 100	44, 74, 128, 201	0
2	E	71/77 (92%)	-0.31	0 100 100	45, 73, 125, 151	0
2	F	72/77 (93%)	-0.16	1 (1%) 73 73	38, 77, 149, 201	0
2	G	72/77 (93%)	-0.41	0 100 100	43, 67, 105, 197	0
2	H	72/77 (93%)	-0.24	0 100 100	47, 76, 132, 191	0
2	I	73/77 (94%)	-0.22	0 100 100	46, 77, 126, 144	0
2	J	72/77 (93%)	-0.16	0 100 100	39, 77, 140, 168	0
2	K	72/77 (93%)	-0.29	0 100 100	39, 72, 122, 162	0
2	L	72/77 (93%)	-0.16	1 (1%) 73 73	41, 78, 135, 192	0
2	M	72/77 (93%)	-0.14	0 100 100	42, 76, 131, 156	0
2	N	71/77 (92%)	-0.35	0 100 100	37, 70, 106, 127	0
All	All	1016/1084 (93%)	-0.23	3 (0%) 90 91	37, 75, 136, 201	6 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	74	PRO	3.2
2	A	73	ALA	2.6
2	L	23	GLY	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 oligosaccharides 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
3	URI	H	401	17/17	0.78	0.11	75,83,97,99	17
3	URI	A	201	17/17	0.79	0.14	84,91,99,100	17
3	URI	B	101	17/17	0.80	0.14	67,72,80,82	17
3	URI	C	301	17/17	0.81	0.11	97,99,100,102	17

6.5 Other polymers [i](#)

There are no such residues in this entry.