



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 20, 2023 – 08:10 PM JST

PDB ID : 7DIC
Title : Mycoplasma genitalium RNase R in complex with single-stranded RNA
Authors : Abula, A.; Quan, X.; Li, X.; Yang, T.; Li, T.; Chen, Q.; Ji, X.
Deposited on : 2020-11-18
Resolution : 2.24 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 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
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) : 2.36

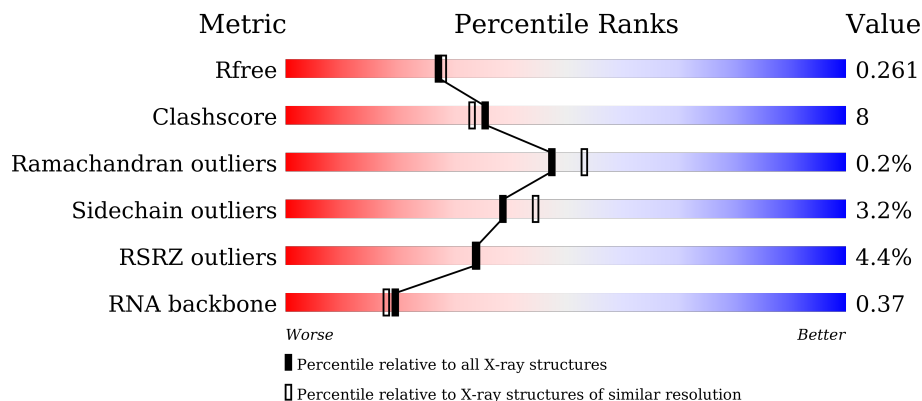
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.24 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	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)
RNA backbone	3102	1027 (2.66-1.82)

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	A	747	 4% 70% 14% • 14%
2	C	9	 22% 33% 56% 11%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5517 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 R.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	646	5190	3319	865	990	16	0	0	0

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-21	MET	-	expression tag	UNP P47350
A	-20	GLY	-	expression tag	UNP P47350
A	-19	HIS	-	expression tag	UNP P47350
A	-18	HIS	-	expression tag	UNP P47350
A	-17	HIS	-	expression tag	UNP P47350
A	-16	HIS	-	expression tag	UNP P47350
A	-15	HIS	-	expression tag	UNP P47350
A	-14	HIS	-	expression tag	UNP P47350
A	-13	HIS	-	expression tag	UNP P47350
A	-12	HIS	-	expression tag	UNP P47350
A	-11	HIS	-	expression tag	UNP P47350
A	-10	HIS	-	expression tag	UNP P47350
A	-9	SER	-	expression tag	UNP P47350
A	-8	SER	-	expression tag	UNP P47350
A	-7	GLY	-	expression tag	UNP P47350
A	-6	HIS	-	expression tag	UNP P47350
A	-5	ILE	-	expression tag	UNP P47350
A	-4	ASP	-	expression tag	UNP P47350
A	-3	ASP	-	expression tag	UNP P47350
A	-2	ASP	-	expression tag	UNP P47350
A	-1	ASP	-	expression tag	UNP P47350
A	0	LYS	-	expression tag	UNP P47350
A	284	ALA	ASP	engineered mutation	UNP P47350

- Molecule 2 is a RNA chain called RNA (5'-R(P*AP*AP*AP*AP*AP*AP*AP*AP*A)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	C	9	198	90	45	54	9	0	0	0

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	123	Total	O	0	0
			123	123		
4	C	5	Total	O	0	0
			5	5		

4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	68.26Å 68.26Å 354.69Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.27 – 2.24 48.27 – 2.24	Depositor EDS
% Data completeness (in resolution range)	99.1 (48.27-2.24) 91.5 (48.27-2.24)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 2.24Å)	Xtrriage
Refinement program	PHENIX 1.10_2148	Depositor
R, R_{free}	0.215 , 0.261 0.215 , 0.261	Depositor DCC
R_{free} test set	2000 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	44.9	Xtrriage
Anisotropy	0.099	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 46.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5517	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.22% 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	0.62	6/5292 (0.1%)	0.85	13/7181 (0.2%)
2	C	0.90	0/224	1.35	1/347 (0.3%)
All	All	0.64	6/5516 (0.1%)	0.88	14/7528 (0.2%)

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

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	687	GLU	CD-OE1	-12.02	1.12	1.25
1	A	687	GLU	CD-OE2	-10.61	1.14	1.25
1	A	556	ASN	C-N	-7.02	1.21	1.34
1	A	140	VAL	CB-CG2	-6.25	1.39	1.52
1	A	687	GLU	CG-CD	-6.05	1.42	1.51
1	A	146	ARG	NE-CZ	-5.04	1.26	1.33

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	9	A	N1-C6-N6	-6.59	114.64	118.60
1	A	532	LYS	CB-CA-C	-6.41	97.59	110.40
1	A	665	GLU	CA-CB-CG	6.32	127.31	113.40
1	A	129	LYS	CA-CB-CG	6.24	127.12	113.40
1	A	330	GLY	N-CA-C	6.00	128.09	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	209	LEU	CA-CB-CG	5.73	128.48	115.30
1	A	532	LYS	CD-CE-NZ	-5.56	98.92	111.70
1	A	528	LEU	CB-CG-CD2	-5.52	101.61	111.00
1	A	127	LEU	CA-CB-CG	5.24	127.36	115.30
1	A	341	LEU	CB-CG-CD2	-5.24	102.10	111.00
1	A	532	LYS	CA-CB-CG	5.16	124.76	113.40
1	A	576	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	A	136	PHE	CB-CG-CD2	5.03	124.32	120.80
1	A	439	ILE	CG1-CB-CG2	-5.00	100.39	111.40

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	165	GLU	Sidechain

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	5190	0	5185	82	0
2	C	198	0	100	9	0
3	A	1	0	0	0	0
4	A	123	0	0	4	0
4	C	5	0	0	0	0
All	All	5517	0	5285	86	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 (86) 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:A:330:GLY:O	1:A:331:HIS:CD2	2.03	1.10
1:A:644:GLY:HA2	1:A:709:LYS:HZ1	1.15	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:LYS:NZ	1:A:137:ASP:OD2	1.90	1.03
1:A:491:ARG:NH1	1:A:519:VAL:O	1.99	0.95
1:A:330:GLY:O	1:A:331:HIS:HD2	1.44	0.94
1:A:121:LEU:HD23	1:A:144:LEU:HB2	1.51	0.91
1:A:203:TYR:O	4:A:901:HOH:O	1.94	0.86
1:A:113:LEU:O	1:A:140:VAL:HG21	1.81	0.80
1:A:644:GLY:CA	1:A:709:LYS:HZ1	1.98	0.76
1:A:181:VAL:HG12	1:A:186:ILE:HD11	1.68	0.76
1:A:330:GLY:O	1:A:331:HIS:CG	2.39	0.76
2:C:3:A:H2'	2:C:4:A:H8	1.52	0.74
1:A:125:CYS:HB3	1:A:141:ILE:HD11	1.71	0.72
1:A:710:LEU:HA	1:A:722:LEU:HD22	1.72	0.71
1:A:367:GLY:HA3	1:A:419:LEU:HD22	1.73	0.69
1:A:176:TYR:HE2	1:A:208:ASN:HD22	1.41	0.67
1:A:107:TYR:O	1:A:138:ALA:N	2.26	0.67
1:A:183:PRO:HA	1:A:186:ILE:HD13	1.77	0.67
1:A:642:GLN:OE1	1:A:645:LYS:HD3	1.95	0.66
2:C:3:A:H2'	2:C:4:A:C8	2.31	0.66
1:A:563:ILE:HD12	2:C:6:A:H4'	1.78	0.66
1:A:593:THR:HB	1:A:596:GLN:HG3	1.77	0.65
1:A:646:THR:HG22	1:A:709:LYS:HD2	1.81	0.63
1:A:160:ASN:ND2	1:A:165:GLU:OE2	2.30	0.63
1:A:719:ARG:NH1	2:C:1:A:OP2	2.32	0.62
1:A:278:THR:HG22	1:A:386:SER:HB2	1.81	0.62
1:A:426:LYS:NZ	4:A:905:HOH:O	2.33	0.61
1:A:686:LYS:HD2	1:A:686:LYS:H	1.66	0.61
1:A:434:HIS:NE2	2:C:4:A:H2	1.99	0.60
1:A:330:GLY:O	1:A:331:HIS:CB	2.49	0.60
1:A:176:TYR:HE2	1:A:208:ASN:ND2	2.00	0.59
1:A:395:ASN:HB2	1:A:397:LYS:HG3	1.85	0.59
1:A:560:HIS:HB3	1:A:563:ILE:HG22	1.85	0.59
1:A:393:TRP:CD1	1:A:399:GLU:HG2	2.39	0.58
1:A:538:GLU:O	1:A:542:ILE:HD13	2.04	0.58
1:A:506:GLU:OE1	1:A:506:GLU:N	2.33	0.58
1:A:571:PHE:O	1:A:584:HIS:HE1	1.87	0.57
1:A:494:LYS:O	1:A:498:GLN:HG2	2.05	0.56
1:A:181:VAL:CG1	1:A:186:ILE:HD11	2.36	0.54
1:A:80:LYS:N	4:A:907:HOH:O	2.40	0.54
1:A:276:ASP:O	1:A:386:SER:HA	2.07	0.54
1:A:684:PHE:CE1	1:A:686:LYS:HG3	2.43	0.54
1:A:109:HIS:CE1	1:A:111:SER:HG	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ASN:O	1:A:140:VAL:HG22	2.08	0.53
1:A:335:PRO:HB2	1:A:337:LEU:O	2.12	0.50
1:A:126:LYS:HE3	1:A:127:LEU:O	2.12	0.50
1:A:311:ARG:NH1	1:A:608:GLU:OE2	2.42	0.50
1:A:121:LEU:CD2	1:A:144:LEU:HB2	2.33	0.49
2:C:1:A:H2'	2:C:2:A:O4'	2.12	0.49
1:A:195:LYS:NZ	1:A:221:ASN:HD21	2.12	0.48
1:A:367:GLY:HA3	1:A:419:LEU:CD2	2.43	0.48
1:A:424:ARG:HG3	1:A:424:ARG:HH21	1.78	0.48
2:C:3:A:H2	2:C:4:A:H62	1.60	0.48
1:A:589:MET:HE3	1:A:602:ARG:HG2	1.96	0.47
1:A:126:LYS:HZ1	1:A:127:LEU:HB2	1.80	0.47
1:A:160:ASN:OD1	1:A:160:ASN:O	2.34	0.46
1:A:628:ARG:HD3	2:C:3:A:N6	2.29	0.46
1:A:680:ASP:OD1	1:A:695:LYS:O	2.33	0.46
1:A:126:LYS:HD3	1:A:136:PHE:HB3	1.99	0.45
1:A:686:LYS:HA	1:A:689:MET:HE2	1.99	0.45
1:A:644:GLY:HA2	1:A:709:LYS:NZ	2.04	0.45
1:A:497:LEU:HD13	1:A:516:LEU:HD22	1.99	0.44
1:A:244:VAL:O	1:A:247:GLN:HG2	2.18	0.44
1:A:574:PRO:HA	1:A:580:ASP:HB2	1.99	0.44
1:A:434:HIS:HE2	2:C:4:A:H2	1.63	0.44
1:A:113:LEU:C	1:A:140:VAL:HG21	2.38	0.44
1:A:529:ASN:HA	1:A:532:LYS:NZ	2.33	0.44
1:A:366:GLN:O	1:A:419:LEU:HD21	2.18	0.43
1:A:644:GLY:O	1:A:709:LYS:HE2	2.18	0.43
1:A:687:GLU:O	1:A:688:LYS:HD3	2.18	0.43
1:A:710:LEU:HA	1:A:722:LEU:CD2	2.45	0.43
1:A:275:VAL:HG12	1:A:387:TYR:CD1	2.53	0.43
1:A:721:ILE:C	1:A:722:LEU:HD23	2.39	0.43
1:A:186:ILE:HD12	1:A:186:ILE:N	2.33	0.43
1:A:350:PRO:O	4:A:902:HOH:O	2.22	0.42
1:A:366:GLN:C	1:A:419:LEU:HD21	2.40	0.42
1:A:639:LEU:HA	1:A:639:LEU:HD23	1.71	0.42
1:A:221:ASN:O	1:A:221:ASN:ND2	2.53	0.41
1:A:394:LEU:HD11	1:A:414:PHE:CZ	2.55	0.41
1:A:645:LYS:NZ	1:A:665:GLU:OE1	2.42	0.41
1:A:654:ILE:HG22	1:A:684:PHE:HE2	1.85	0.41
1:A:611:LYS:HE2	1:A:611:LYS:HB2	1.78	0.41
1:A:425:GLN:HA	1:A:429:THR:HG22	2.02	0.41
1:A:408:ASN:HA	1:A:411:LYS:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:LEU:HD21	1:A:702:ILE:O	2.22	0.40
1:A:516:LEU:HD23	1:A:516:LEU:HA	1.91	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	644/747 (86%)	631 (98%)	12 (2%)	1 (0%)	47 53

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	331	HIS

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	585/680 (86%)	566 (97%)	19 (3%)	39 44

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

Mol	Chain	Res	Type
1	A	101	ASP

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Mol	Chain	Res	Type
1	A	121	LEU
1	A	128	ASP
1	A	129	LYS
1	A	146	ARG
1	A	192	SER
1	A	209	LEU
1	A	221	ASN
1	A	251	LYS
1	A	280	SER
1	A	366	GLN
1	A	382	LYS
1	A	384	ARG
1	A	456	ASP
1	A	465	LEU
1	A	511	LYS
1	A	573	SER
1	A	580	ASP
1	A	705	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	83	GLN
1	A	92	ASN
1	A	131	GLN
1	A	160	ASN
1	A	221	ASN
1	A	331	HIS
1	A	401	ASN
1	A	584	HIS
1	A	629	ASN
1	A	697	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	C	8/9 (88%)	1 (12%)	0

All (1) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	C	4	A

There are no RNA pucker outliers to report.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is 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	646/747 (86%)	0.28	27 (4%) 36 35	35, 68, 109, 169	0
2	C	9/9 (100%)	0.98	2 (22%) 0 0	54, 57, 142, 143	0
All	All	655/756 (86%)	0.29	29 (4%) 34 34	35, 68, 111, 169	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	133	GLY	6.6
1	A	128	ASP	6.3
1	A	134	ASP	4.5
1	A	687	GLU	4.4
1	A	397	LYS	4.2
1	A	101	ASP	4.0
1	A	127	LEU	3.9
1	A	126	LYS	3.9
1	A	396	ASN	3.8
1	A	130	PRO	3.8
1	A	331	HIS	3.5
1	A	400	LEU	3.5
1	A	395	ASN	3.5
1	A	446	PHE	3.4
1	A	330	GLY	3.4
1	A	132	PHE	3.3
1	A	398	SER	3.2
1	A	129	LYS	3.0
1	A	136	PHE	2.8
2	C	1	A	2.5
1	A	139	ALA	2.4
1	A	82	LEU	2.4
1	A	684	PHE	2.3
2	C	4	A	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	681	PHE	2.1
1	A	269	ASP	2.1
1	A	647	PHE	2.1
1	A	102	ASP	2.0
1	A	683	ILE	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](#)

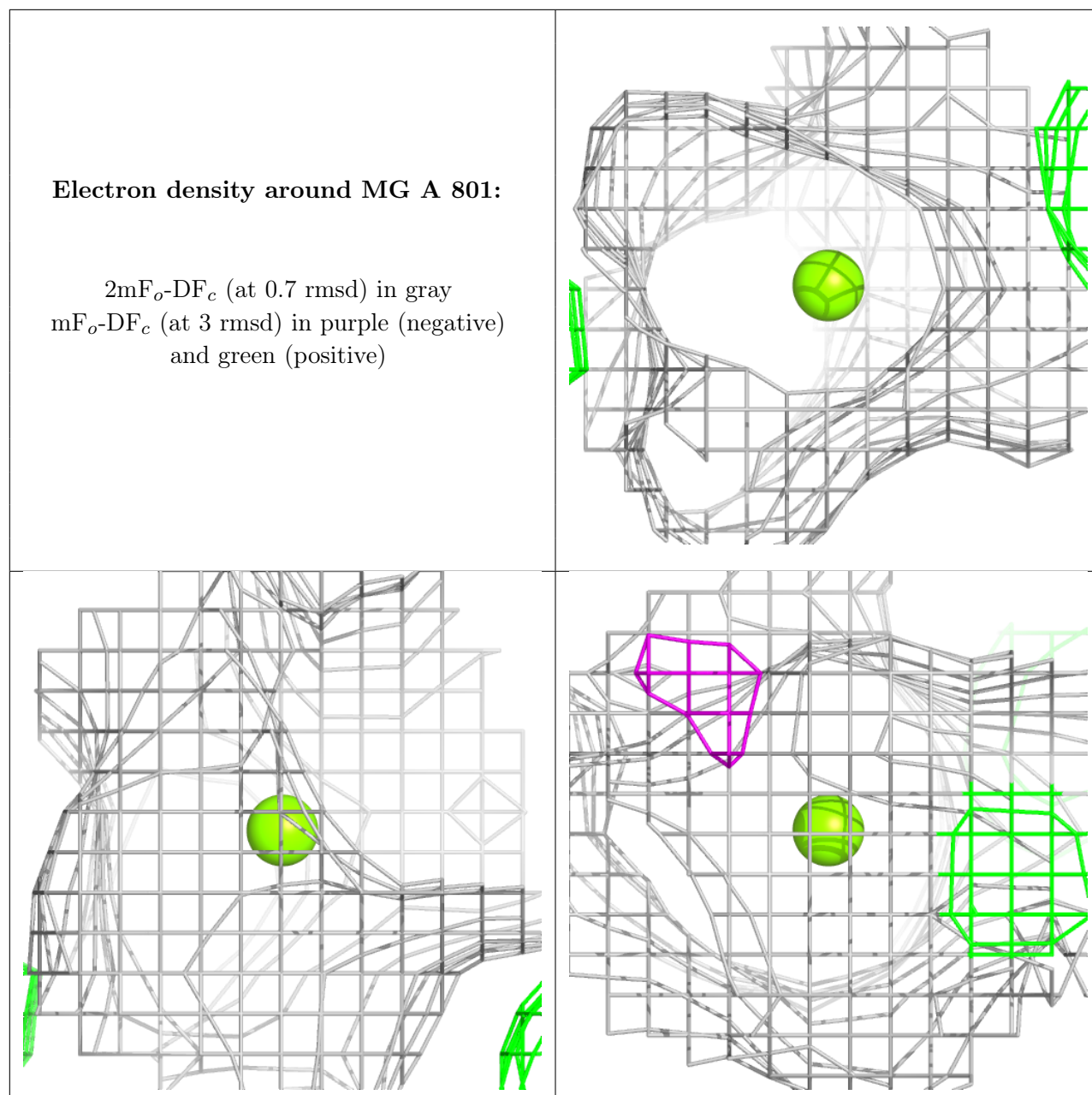
There are no monosaccharides in this entry.

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	MG	A	801	1/1	0.95	0.11	49,49,49,49	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers ⓘ

There are no such residues in this entry.