



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 7, 2023 – 06:28 PM EDT

PDB ID : 6DOG
Title : Crystal Structure of Bacillus Halodurans Ribonuclease H1 in Complex with an RNA/DNA Hybrid: Reaction in 2 mM Mg²⁺ and 200 mM K⁺ for 600 s at 21 C
Authors : Samara, N.L.; Yang, W.
Deposited on : 2018-06-09
Resolution : 1.28 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

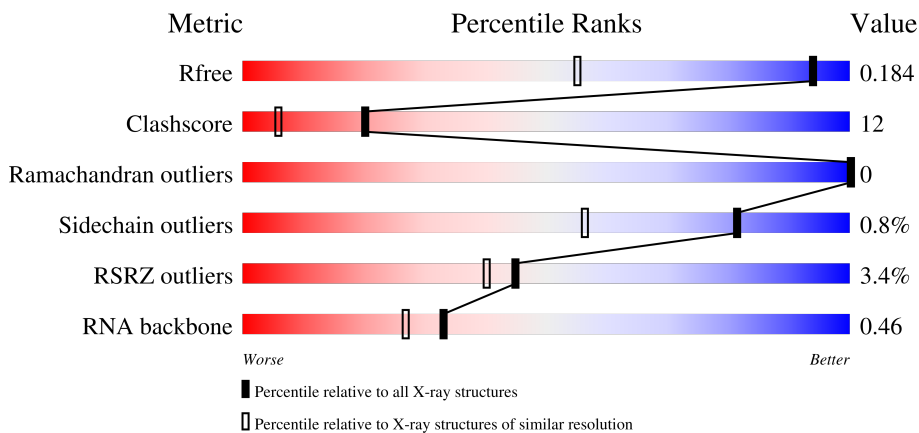
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

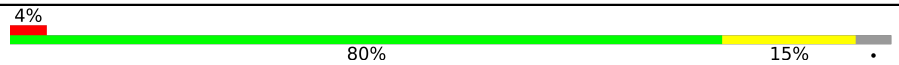


The reported resolution of this entry is 1.28 Å.

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	1850 (1.30-1.26)
Clashscore	141614	1926 (1.30-1.26)
Ramachandran outliers	138981	1860 (1.30-1.26)
Sidechain outliers	138945	1859 (1.30-1.26)
RSRZ outliers	127900	1807 (1.30-1.26)
RNA backbone	3102	1000 (2.34-0.62)

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	142	
2	B	4	
3	b	2	

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Mol	Chain	Length	Quality of chain
4	C	6	 67% 33%

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
7	IOD	A	206	-	-	X	-
8	EDO	A	211	-	-	X	-

2 Entry composition i

There are 11 unique types of molecules in this entry. The entry contains 2613 atoms, of which 963 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	
			Total	C	H	N	O				S
1	A	136	2096	725	963	188	218	2	0	3	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	55	GLY	-	expression tag	UNP Q9KEI9
A	56	SER	-	expression tag	UNP Q9KEI9
A	57	HIS	-	expression tag	UNP Q9KEI9
A	58	MET	-	expression tag	UNP Q9KEI9

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	B	4	88	42	15	28	3	0	1	0

- Molecule 3 is a RNA chain called RNA (5'-R(P*CP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	b	2	47	19	8	17	3	0	1	0

- Molecule 4 is a DNA chain called DNA (5'-D(*CP*GP*AP*TP*GP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
4	C	6	121	59	22	35	5	0	0	0

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	2	Total Mg 2 2	0	0

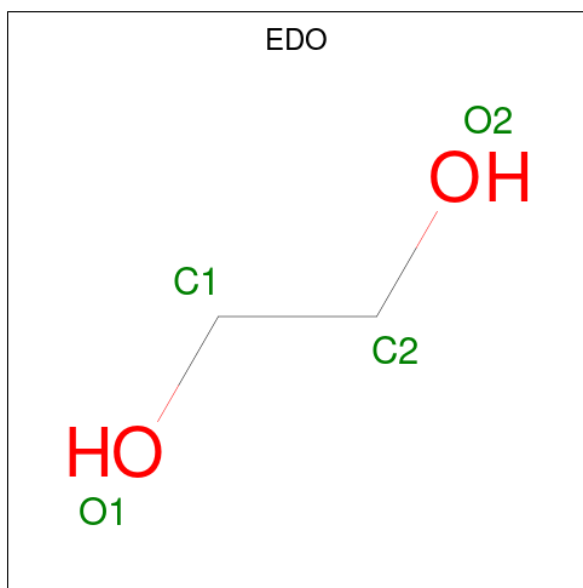
- Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

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

- Molecule 7 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	4	Total I 4 4	0	0

- Molecule 8 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
8	A	1	4	2	2	0	0

- Molecule 9 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
9	A	1	6	3	3	0	0
9	A	1	6	3	3	0	0
9	A	1	6	3	3	0	0
9	A	1	6	3	3	0	0
9	C	1	6	3	3	0	0

- Molecule 10 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	A	1	Total C O 10 6 4	0	0

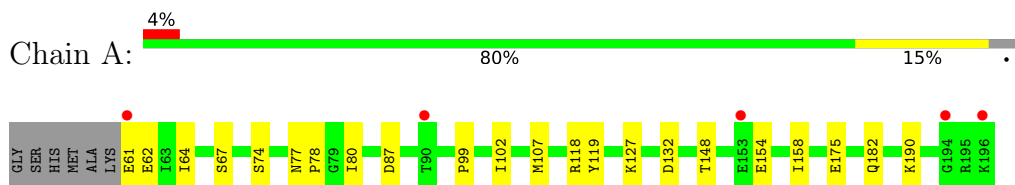
- Molecule 11 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	A	158	Total O 158 158	0	2
11	B	12	Total O 12 12	0	0
11	b	4	Total O 4 4	0	1
11	C	22	Total O 22 22	0	1

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: Ribonuclease H



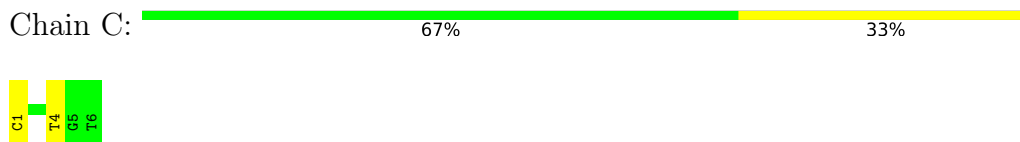
- Molecule 2: RNA (5'-R(*AP*CP*AP*U)-3')



- Molecule 3: RNA (5'-R(P*CP*G)-3')



- Molecule 4: DNA (5'-D(*CP*GP*AP*TP*GP*T)-3')



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	81.57Å 37.89Å 62.25Å 90.00° 96.22° 90.00°	Depositor
Resolution (Å)	20.27 – 1.28 20.27 – 1.28	Depositor EDS
% Data completeness (in resolution range)	97.7 (20.27-1.28) 97.6 (20.27-1.28)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 1.29Å)	Xtrriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.161 , 0.183 0.162 , 0.184	Depositor DCC
R_{free} test set	2290 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	15.3	Xtrriage
Anisotropy	0.226	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.46 , 63.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2613	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.88% 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: K, PGE, MG, GOL, EDO, IOD

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	0.43	0/1165	0.64	0/1576
2	B	0.79	0/110	1.44	0/166
3	b	2.08	2/70 (2.9%)	1.23	0/103
4	C	0.92	0/135	1.16	0/207
All	All	0.69	2/1480 (0.1%)	0.83	0/2052

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	b	5[B]	C	OP3-P	-11.25	1.47	1.61
3	b	5[C]	C	OP3-P	-11.25	1.47	1.61

There are no bond angle outliers.

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	1133	963	1124	28	0
2	B	88	0	49	5	0
3	b	47	0	16	0	0
4	C	121	0	70	2	0
5	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	2	0	0	0	0
6	C	1	0	0	0	0
7	A	4	0	0	2	0
8	A	16	0	23	13	0
9	A	24	0	31	6	0
9	C	6	0	8	2	0
10	A	10	0	14	3	0
11	A	158	0	0	4	2
11	B	12	0	0	0	0
11	C	22	0	0	1	0
11	b	4	0	0	0	0
All	All	1650	963	1335	35	2

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 12.

All (35) 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:132:ASP:O	2:B:4[C]:U:H5'	1.74	0.88
1:A:148:THR:HG21	8:A:209:EDO:H21	1.60	0.82
1:A:119:TYR:HA	9:A:213:GOL:H12	1.64	0.79
1:A:99:PRO:HB2	8:A:210:EDO:H12	1.67	0.76
1:A:77:ASN:H	9:C:102:GOL:H11	1.51	0.75
1:A:80:ILE:HD13	8:A:210:EDO:H21	1.69	0.75
1:A:175:GLU:OE2	11:A:301:HOH:O	2.07	0.72
1:A:127:LYS:HE2	8:A:211:EDO:H11	1.73	0.70
1:A:61:GLU:HG2	1:A:182:GLN:HE22	1.57	0.70
1:A:127:LYS:CE	8:A:211:EDO:H11	2.24	0.68
1:A:148:THR:CG2	8:A:209:EDO:H21	2.27	0.65
10:A:216:PGE:H12	2:B:3:A:OP1	1.97	0.65
1:A:118:ARG:CZ	9:A:212:GOL:H2	2.31	0.60
7:A:206:IOD:I	11:A:458:HOH:O	2.87	0.59
1:A:127:LYS:NZ	8:A:211:EDO:H11	2.18	0.58
1:A:102:ILE:HD12	1:A:154:GLU:HB2	1.85	0.58
10:A:216:PGE:H1	2:B:3:A:H5''	1.87	0.57
1:A:78:PRO:HG2	9:A:214:GOL:H32	1.88	0.56
1:A:77:ASN:N	9:C:102:GOL:H11	2.20	0.54
1:A:132:ASP:O	2:B:4[C]:U:C5'	2.51	0.54
1:A:127:LYS:NZ	9:A:215:GOL:O1	2.40	0.53
1:A:87:ASP:OD2	8:A:211:EDO:H12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1:DC:O2	11:C:201:HOH:O	2.17	0.51
9:A:215:GOL:H31	11:A:336:HOH:O	2.11	0.50
1:A:107[A]:MET:SD	1:A:158:ILE:HG12	2.52	0.50
1:A:190:LYS:HG2	11:A:351:HOH:O	2.12	0.50
1:A:67:SER:O	8:A:211:EDO:H22	2.12	0.48
10:A:216:PGE:C1	2:B:3:A:OP1	2.63	0.47
1:A:87:ASP:HA	8:A:211:EDO:H21	1.97	0.46
1:A:119:TYR:CA	9:A:213:GOL:H12	2.43	0.45
1:A:127:LYS:NZ	8:A:211:EDO:C1	2.81	0.43
1:A:127:LYS:NZ	8:A:211:EDO:O2	2.38	0.42
1:A:64:ILE:HD13	7:A:206:IOD:I	2.91	0.41
8:A:209:EDO:H11	4:C:4:DT:H2'	2.03	0.40
1:A:74:SER:HA	1:A:80:ILE:O	2.21	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A:301:HOH:O	11:A:301:HOH:O[2_656]	1.74	0.46
11:A:395:HOH:O	11:A:395:HOH:O[2_656]	1.84	0.36

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	137/142 (96%)	137 (100%)	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	123/124 (99%)	122 (99%)	1 (1%)	81 56

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	62	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	B	1/4 (25%)	0	0
3	b	0/2	-	-
All	All	1/6 (16%)	0	0

There are no RNA backbone outliers to report.

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 19 ligands modelled in this entry, 9 are monoatomic - leaving 10 for Mogul analysis.

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
8	EDO	A	208	-	3,3,3	0.47	0	2,2,2	0.28	0
9	GOL	A	214	-	5,5,5	0.37	0	5,5,5	0.26	0
10	PGE	A	216	-	9,9,9	0.32	0	8,8,8	0.29	0
9	GOL	A	213	-	5,5,5	0.36	0	5,5,5	0.46	0
9	GOL	A	212	-	5,5,5	0.40	0	5,5,5	0.21	0
9	GOL	A	215	-	5,5,5	0.39	0	5,5,5	0.25	0
8	EDO	A	211	-	3,3,3	0.52	0	2,2,2	0.17	0
8	EDO	A	210	-	3,3,3	0.48	0	2,2,2	0.23	0
9	GOL	C	102	-	5,5,5	0.30	0	5,5,5	0.63	0
8	EDO	A	209	-	3,3,3	0.52	0	2,2,2	0.18	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. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	EDO	A	208	-	-	0/1/1/1	-
9	GOL	A	214	-	-	1/4/4/4	-
10	PGE	A	216	-	-	6/7/7/7	-
9	GOL	A	213	-	-	2/4/4/4	-
9	GOL	A	212	-	-	2/4/4/4	-
9	GOL	A	215	-	-	0/4/4/4	-
8	EDO	A	211	-	-	0/1/1/1	-
8	EDO	A	210	-	-	1/1/1/1	-
9	GOL	C	102	-	-	2/4/4/4	-
8	EDO	A	209	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	A	213	GOL	O1-C1-C2-C3
9	A	213	GOL	O1-C1-C2-O2
10	A	216	PGE	O2-C3-C4-O3
10	A	216	PGE	O3-C5-C6-O4
9	A	212	GOL	O1-C1-C2-C3
9	C	102	GOL	O1-C1-C2-C3
9	C	102	GOL	O1-C1-C2-O2
8	A	209	EDO	O1-C1-C2-O2
8	A	210	EDO	O1-C1-C2-O2
10	A	216	PGE	O1-C1-C2-O2
9	A	212	GOL	O1-C1-C2-O2
10	A	216	PGE	C1-C2-O2-C3
10	A	216	PGE	C3-C4-O3-C5
10	A	216	PGE	C4-C3-O2-C2
9	A	214	GOL	O1-C1-C2-O2

There are no ring outliers.

9 monomers are involved in 24 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	A	214	GOL	1	0
10	A	216	PGE	3	0
9	A	213	GOL	2	0
9	A	212	GOL	1	0
9	A	215	GOL	2	0
8	A	211	EDO	8	0
8	A	210	EDO	2	0
9	C	102	GOL	2	0
8	A	209	EDO	3	0

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	136/142 (95%)	-0.12	5 (3%) 41 36	10, 20, 40, 60	1 (0%)
2	B	4/4 (100%)	0.22	0 100 100	21, 21, 33, 34	0
3	b	2/2 (100%)	0.09	0 100 100	20, 20, 20, 26	0
4	C	6/6 (100%)	0.20	0 100 100	19, 26, 36, 40	0
All	All	148/154 (96%)	-0.10	5 (3%) 45 40	10, 20, 40, 60	1 (0%)

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	196	LYS	4.1
1	A	61	GLU	3.5
1	A	153	GLU	3.4
1	A	90	THR	3.0
1	A	194	GLY	2.4

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.

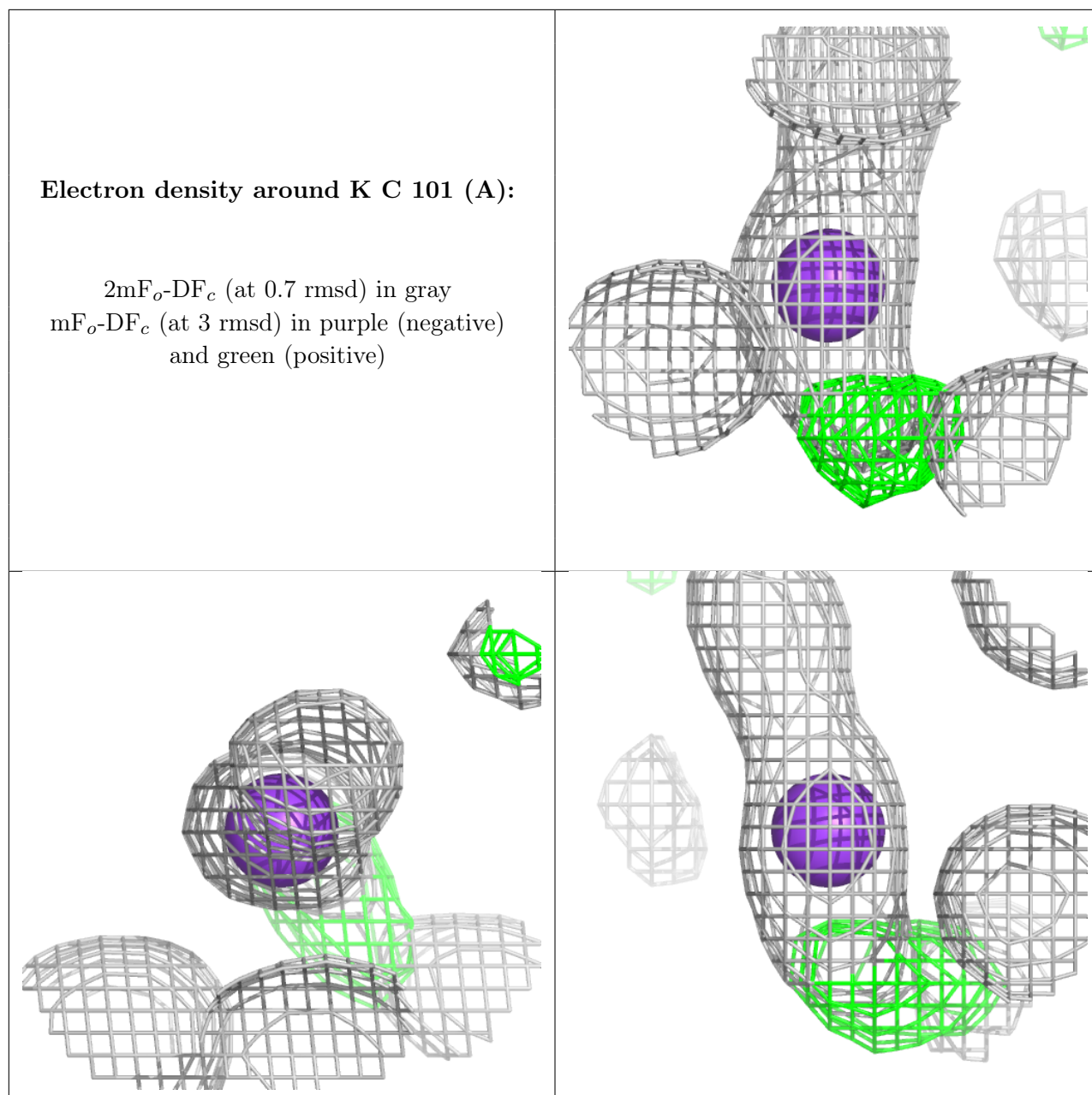
6.4 Ligands [i](#)

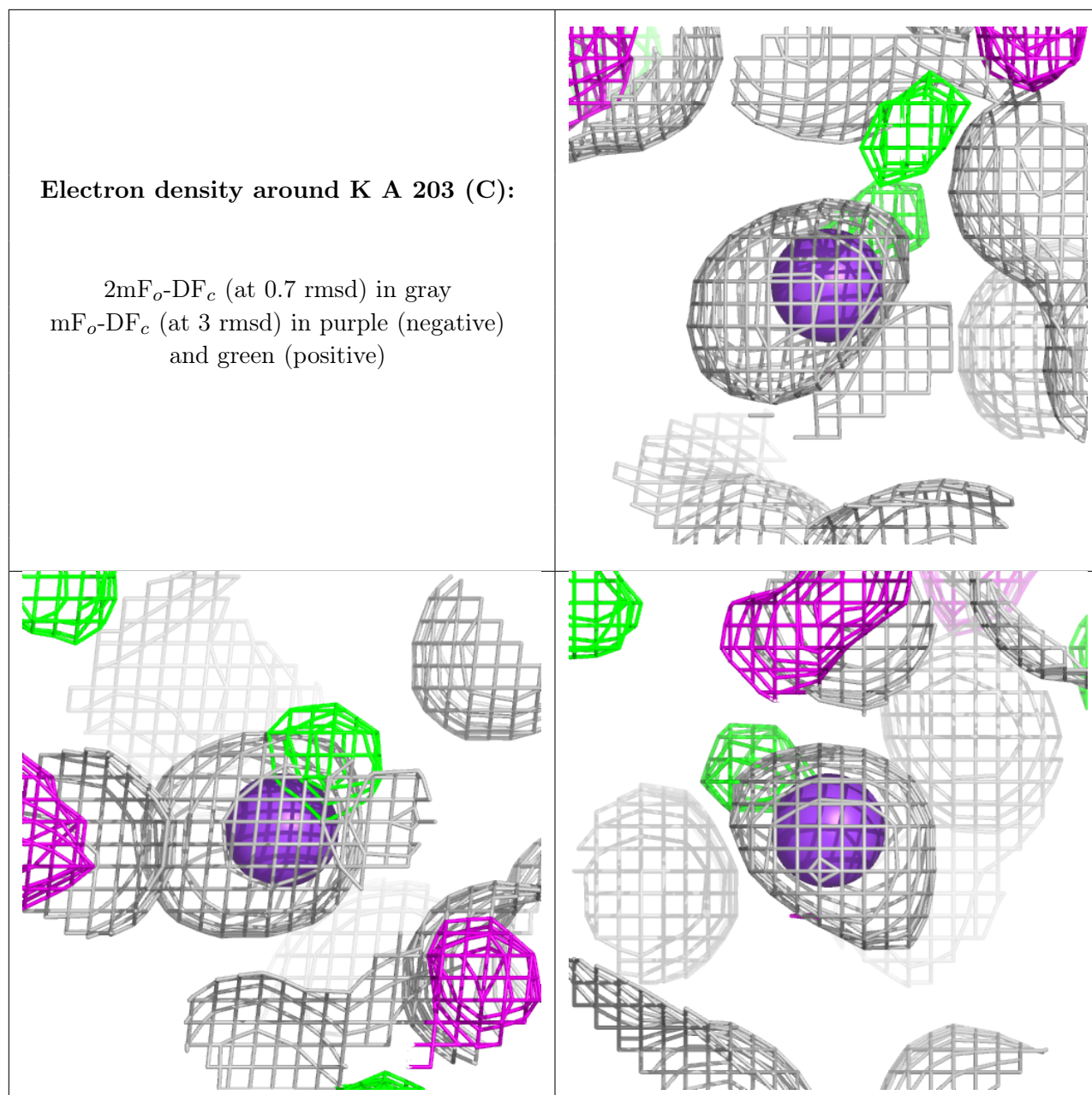
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

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
8	EDO	A	211	4/4	0.18	0.40	54,63,67,75	0
9	GOL	A	215	6/6	0.62	0.19	56,63,67,68	0
9	GOL	A	213	6/6	0.75	0.18	29,43,55,56	0
9	GOL	A	214	6/6	0.78	0.14	42,52,56,58	0
8	EDO	A	210	4/4	0.80	0.31	48,50,55,56	0
8	EDO	A	209	4/4	0.82	0.15	34,34,39,42	0
6	K	C	101[A]	1/1	0.84	0.12	34,34,34,34	1
10	PGE	A	216	10/10	0.86	0.24	35,49,65,66	0
9	GOL	C	102	6/6	0.87	0.13	30,40,44,48	0
6	K	A	203[C]	1/1	0.87	0.12	21,21,21,21	1
9	GOL	A	212	6/6	0.90	0.17	25,59,63,63	0
8	EDO	A	208	4/4	0.90	0.09	36,36,44,50	0
6	K	A	217[B]	1/1	0.94	0.10	22,22,22,22	1
5	MG	A	202	1/1	0.94	0.09	17,17,17,17	0
7	IOD	A	205	1/1	0.97	0.04	30,30,30,30	1
7	IOD	A	207	1/1	0.97	0.10	45,45,45,45	1
7	IOD	A	206	1/1	0.98	0.03	29,29,29,29	1
5	MG	A	201	1/1	0.98	0.07	18,18,18,18	0
7	IOD	A	204	1/1	1.00	0.05	14,14,14,14	1

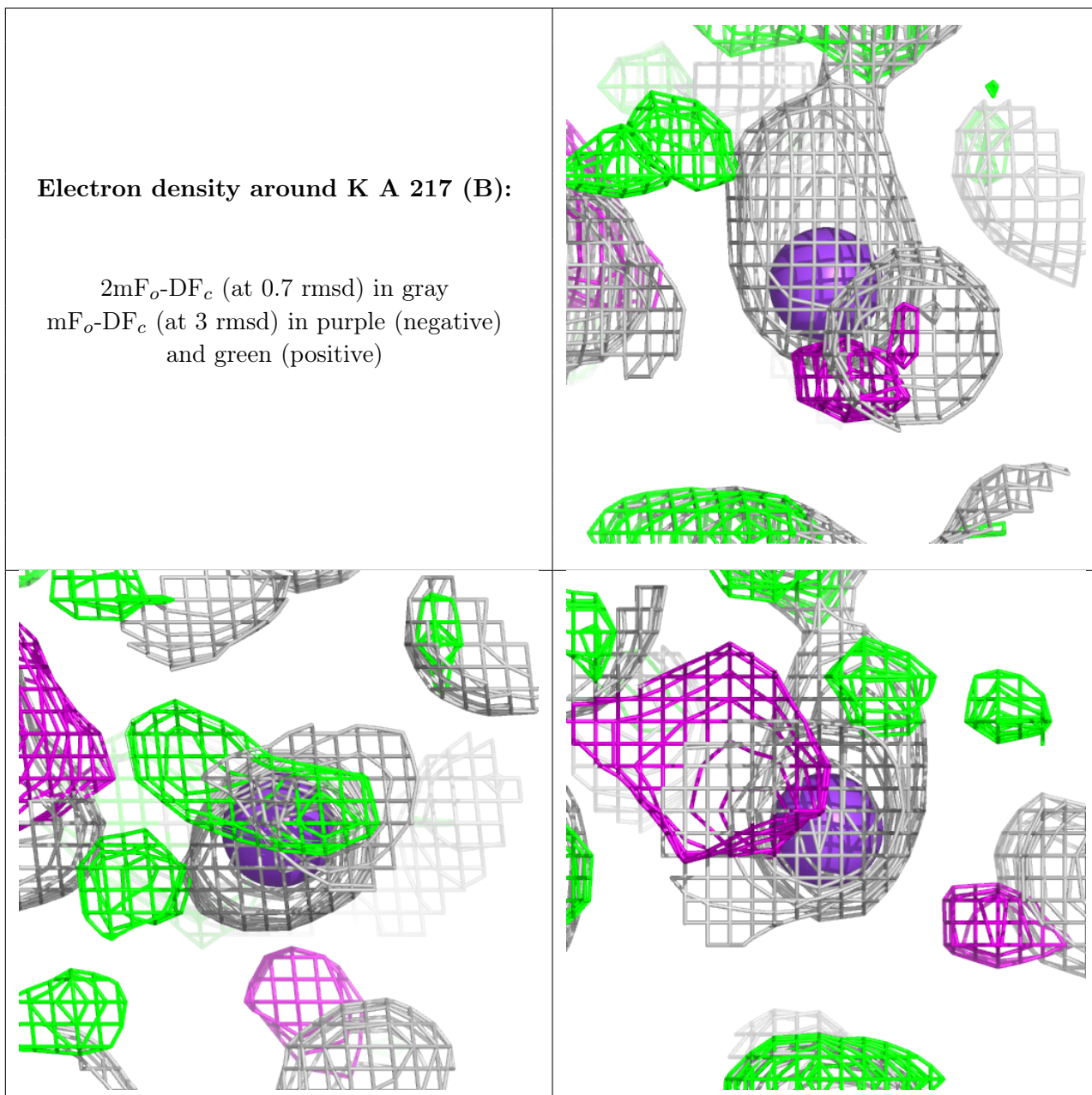
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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





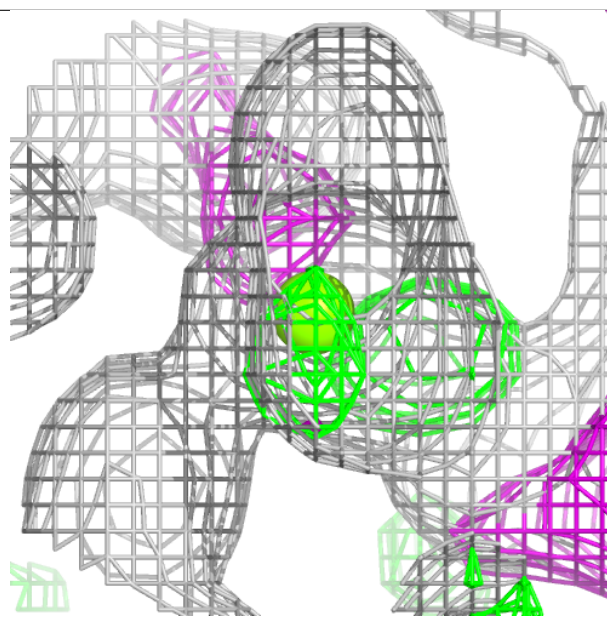
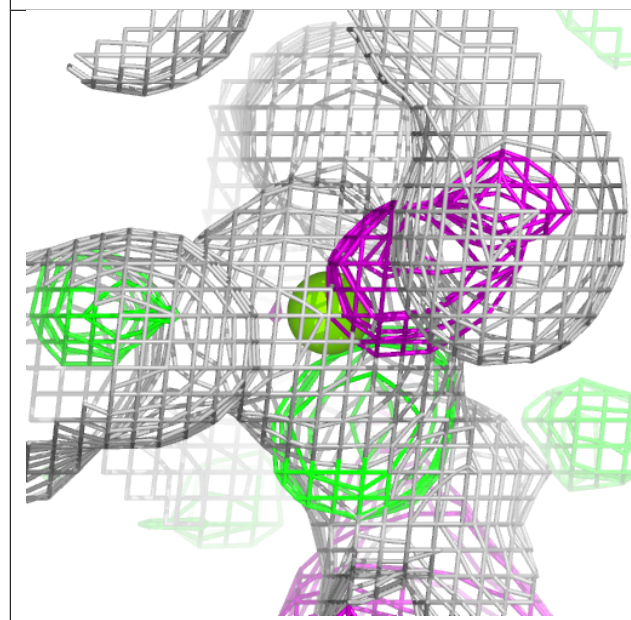
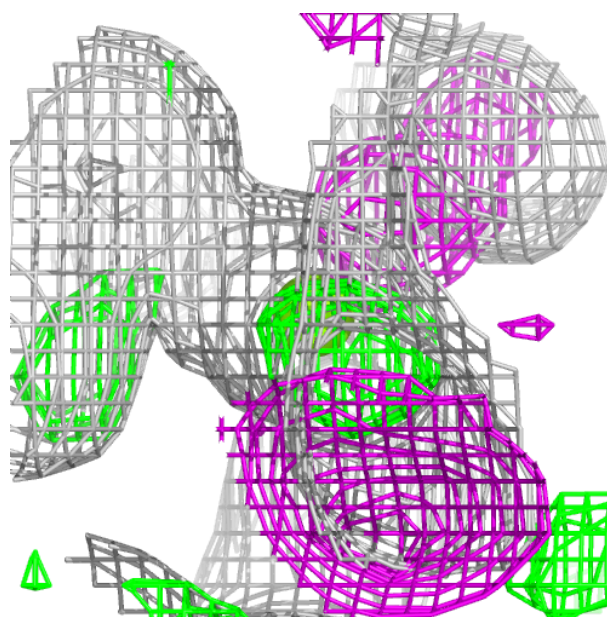
Electron density around K A 217 (B):

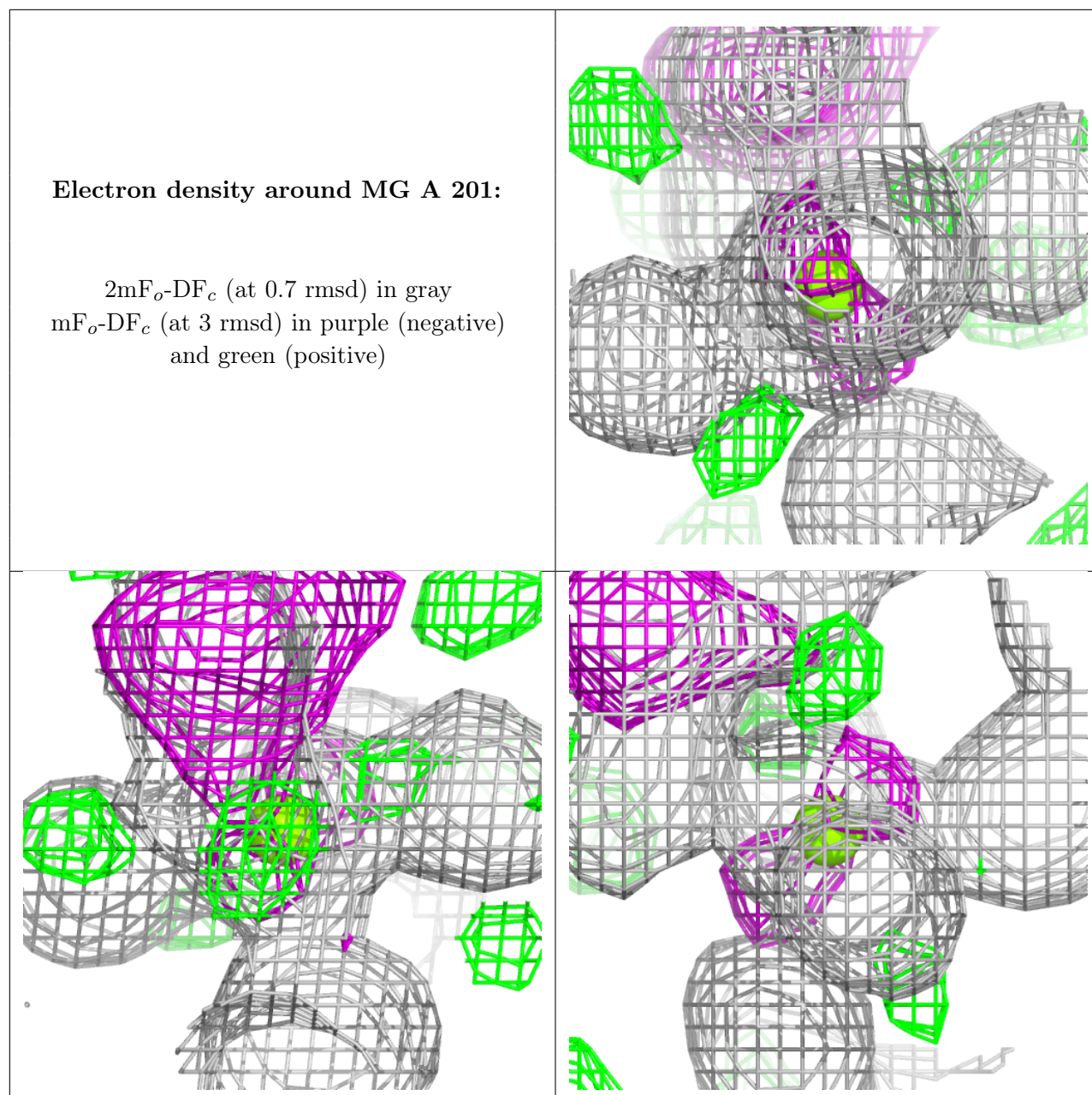
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around MG A 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers ⓘ

There are no such residues in this entry.