

# Full wwPDB X-ray Structure Validation Report (i)

#### Oct 7, 2023 – 06:59 PM EDT

PDB ID	:	6DP4
Title	:	Crystal Structure of Bacillus Halodurans Ribonuclease H1 in Complex with
		an RNA/DNA Hybrid: Reaction in 20 mM Mg2+ and 75 mM K+ for 40 s at 21 C
Authors	:	Samara, N.L.; Yang, W.
Deposited on	:	2018-06-09
Resolution	:	1.37 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 (i) 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 (i)) were used in the production of this report:

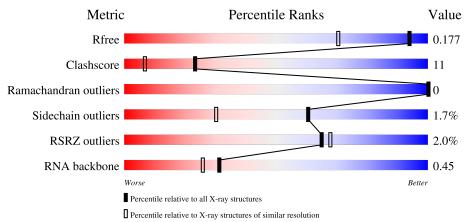
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.37 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	2907 (1.40-1.36)
Clashscore	141614	3037 (1.40-1.36)
Ramachandran outliers	138981	2970 (1.40-1.36)
Sidechain outliers	138945	2969 (1.40-1.36)
RSRZ outliers	127900	2846 (1.40-1.36)
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 <=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	А	142	2% <b>8</b> 4%	12%	•				
2	В	4	75%	25%					
3	b	2	50% 50%						



Continued from previous page...

Mol	Chain	Length		Quality of chain	
4	С	6	33%	67%	-

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
8	GOL	А	208	-	-	Х	-
8	GOL	А	213	-	-	Х	-
8	GOL	А	214	-	-	Х	-



#### 6DP4

# 2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 2561 atoms, of which 946 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			Atom	ns			ZeroOcc	AltConf	Trace
1	А	136	Total 2073	C 721	Н 946	N 188	0 216	${ m S} { m 2}$	0	2	0

There are 4 discrepancies between the modelled and reference sequences:

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

• Molecule 2 is a RNA chain called 5'-R(\*AP\*CP\*AP\*U)-3' portion of cleaved RNA 5'-R(\*A P\*CP\*AP\*UP\*CP\*G)-3'.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	4	Total 88	C 42	N 15	0 28	Р 3	0	1	0

• Molecule 3 is a RNA chain called 5'-R(P\*CP\*G)-3' portion of cleaved RNA 5'-R(\*AP\*CP\* AP\*UP\*CP\*G)-3'.

Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf	Trace
3	b	2	Total 47	C 19	N 8	0 17	Р 3	0	1	0

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

Mol	Chain	Residues		At	$\mathbf{oms}$			ZeroOcc	AltConf	Trace
4	С	6	Total 121	C 59	N 22	O 35	Р 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	А	2	Total Mg 2 2	0	0

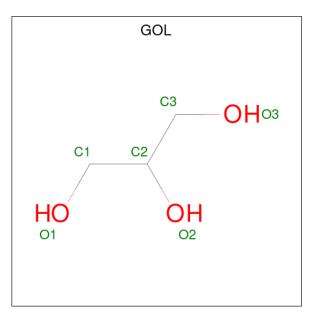
• Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	2	Total K 2 2	0	2
6	С	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	А	3	Total I 3 3	0	0

• Molecule 8 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0



Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 6  3  3 \end{array}$	0	0

• Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	157	Total O 157 157	0	1
9	В	9	Total O 9 9	0	0
9	b	4	Total O 4 4	0	1
9	С	12	Total O 12 12	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		
Chain A:	84%	12% •	
GLY SER HIS MET ALA LVA E61 S74 S74 N77	180 180 188 188 188 188 193 193 193 144 144 144 148 1148 1148 1148 1148 11	K185 K196 R196 K196	
• Molecule 2:	5'-R(*AP*CP*AP*U)-3' portio	on of cleaved RNA 5'-R(*AP'	*CP*AP*UP*CP*G)-3
Chain B:	75%	25%	•
<b>A1</b> U4			
• Molecule 3:	5'-R(P*CP*G)-3' portion of cle	eaved RNA 5'-R(*AP*CP*AI	P*UP*CP*G)-3'
Chain b:	50%	50%	•
<mark>8</mark> 8			
• Molecule 4:	DNA $(5'-D(*CP*GP*AP*TP*O))$	GP*T)-3')	
Chain C:	33%	67%	•
0 92 144 165 165			



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	81.53Å 37.67Å 62.05Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $96.52^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	19.92 - 1.37	Depositor
Resolution (A)	19.92 - 1.37	EDS
% Data completeness	96.7 (19.92-1.37)	Depositor
(in resolution range)	96.7(19.92 - 1.37)	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.41 (at 1.38 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
D D.	0.157 , $0.176$	Depositor
$R, R_{free}$	0.159 , $0.177$	DCC
$R_{free}$ test set	1904 reflections $(5.02\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	17.9	Xtriage
Anisotropy	0.205	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.40 , $55.9$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	2561	wwPDB-VP
Average B, all atoms $(Å^2)$	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 10.12% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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, K, GOL, 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).

Mal	Mol Chain		nd lengths	Bond angles	
IVIOI			# Z  > 5	RMSZ	# Z  > 5
1	А	0.41	0/1156	0.61	0/1563
2	В	0.66	0/110	1.17	0/166
3	b	1.98	2/70~(2.9%)	1.28	0/103
4	С	0.95	0/135	1.15	0/207
All	All	0.66	2/1471~(0.1%)	0.78	0/2039

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
3	b	5[B]	С	OP3-P	-10.98	1.48	1.61
3	b	5[C]	С	OP3-P	-10.98	1.48	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	А	1127	946	1118	22	0
2	В	88	0	49	1	0
3	b	47	0	16	0	0
4	С	121	0	70	7	0
5	А	2	0	0	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	А	2	0	0	0	0
6	С	1	0	0	0	0
7	А	3	0	0	1	0
8	А	42	0	56	23	0
9	А	157	0	0	3	0
9	В	9	0	0	0	0
9	С	12	0	0	0	0
9	b	4	0	0	0	0
All	All	1615	946	1309	31	0

Continued from previous page...

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 (31) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A 4 a m 1	A + a	Interatomic	Clash
Atom-1	Atom-2	distance $(\text{\AA})$	overlap (Å)
8:A:208:GOL:H32	4:C:2:DG:H21	1.31	0.92
1:A:132:ASP:O	2:B:4[C]:U:H5'	1.77	0.85
8:A:213:GOL:H12	4:C:5:DG:H8	1.48	0.76
8:A:213:GOL:H12	4:C:5:DG:C8	2.24	0.72
7:A:207:IOD:I	9:A:457:HOH:O	2.81	0.68
1:A:173:THR:HA	8:A:214:GOL:H32	1.76	0.66
1:A:174[B]:TYR:H	8:A:214:GOL:H31	1.60	0.65
1:A:174[A]:TYR:H	8:A:214:GOL:H31	1.64	0.61
1:A:77:ASN:O	8:A:208:GOL:H31	2.03	0.59
1:A:174[A]:TYR:CZ	8:A:214:GOL:H12	2.38	0.58
1:A:148:THR:HG21	8:A:213:GOL:H31	1.85	0.58
1:A:174[A]:TYR:CE1	8:A:214:GOL:H12	2.40	0.56
8:A:208:GOL:H32	4:C:2:DG:N2	2.12	0.55
1:A:143:LYS:HZ1	8:A:214:GOL:HO2	1.50	0.52
8:A:210:GOL:H11	9:A:307:HOH:O	2.10	0.51
1:A:148:THR:CG2	8:A:213:GOL:H31	2.41	0.50
1:A:88:THR:O	1:A:190:LYS:HD3	2.12	0.50
1:A:148:THR:OG1	8:A:213:GOL:H31	2.13	0.48
4:C:3:DA:H2"	4:C:4:DT:H5'	1.94	0.48
1:A:185:LYS:NZ	9:A:306:HOH:O	2.46	0.48
1:A:174[B]:TYR:H	8:A:214:GOL:C3	2.26	0.47
8:A:208:GOL:C3	4:C:2:DG:H21	2.16	0.46
1:A:74:SER:HA	1:A:80:ILE:O	2.16	0.46
1:A:150:VAL:CG1	8:A:209:GOL:H11	2.46	0.45
1:A:107[A]:MET:SD	1:A:158:ILE:HG12	2.57	0.45



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174[B]:TYR:CE2	8:A:214:GOL:H12	2.50	0.45
1:A:174[A]:TYR:H	8:A:214:GOL:C3	2.28	0.45
1:A:174[B]:TYR:CZ	8:A:214:GOL:H12	2.51	0.44
1:A:148:THR:OG1	8:A:213:GOL:C3	2.66	0.44
8:A:213:GOL:H11	4:C:5:DG:H5"	2.01	0.42
1:A:89:LYS:HB2	1:A:89:LYS:HE2	1.81	0.42

Continued from previous page...

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	А	136/142~(96%)	136 (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	А	122/124~(98%)	120 (98%)	2(2%)	62 33		

All (2) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	А	61	GLU
1	А	144	LYS

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	В	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 15 ligands modelled in this entry, 8 are monoatomic - leaving 7 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	В	ond leng	gths	B	ond ang	gles
IVIOI	Type	Unain	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
8	GOL	А	209	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.23	0
8	GOL	А	214	-	$5,\!5,\!5$	0.36	0	$5,\!5,\!5$	0.28	0



Mol	Type Chai	Chain	Dec	Link	B	Bond lengths			Bond angles		
	туре	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
8	GOL	А	208	-	$5,\!5,\!5$	0.34	0	$5,\!5,\!5$	0.37	0	
8	GOL	А	212	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.37	0	
8	GOL	А	211	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.34	0	
8	GOL	А	213	-	$5,\!5,\!5$	0.30	0	$5,\!5,\!5$	0.51	0	
8	GOL	А	210	-	$5,\!5,\!5$	0.36	0	$5,\!5,\!5$	0.24	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	GOL	А	209	-	-	2/4/4/4	-
8	GOL	А	214	-	-	4/4/4/4	-
8	GOL	А	208	-	-	2/4/4/4	-
8	GOL	А	212	-	-	0/4/4/4	-
8	GOL	А	211	-	-	2/4/4/4	-
8	GOL	А	213	-	-	2/4/4/4	-
8	GOL	А	210	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	А	209	GOL	O1-C1-C2-C3
8	А	211	GOL	O1-C1-C2-C3
8	А	214	GOL	C1-C2-C3-O3
8	А	208	GOL	O1-C1-C2-C3
8	А	213	GOL	O1-C1-C2-C3
8	А	209	GOL	O1-C1-C2-O2
8	А	213	GOL	O1-C1-C2-O2
8	А	214	GOL	O2-C2-C3-O3
8	А	211	GOL	O1-C1-C2-O2
8	А	208	GOL	O1-C1-C2-O2
8	А	214	GOL	O1-C1-C2-C3
8	А	214	GOL	O1-C1-C2-O2

There are no ring outliers.



Mol	Chain	$\mathbf{Res}$	Type	Clashes	Symm-Clashes
8	А	209	GOL	1	0
8	А	214	GOL	10	0
8	А	208	GOL	4	0
8	А	213	GOL	7	0
8	А	210	GOL	1	0

5 monomers are involved in 23 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,  $95^{th}$  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	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	136/142~(95%)	-0.23	3 (2%) 62 64	14, 23, 43, 72	1 (0%)
2	В	4/4 (100%)	-0.11	0 100 100	24, 24, 36, 40	0
3	b	2/2~(100%)	-0.49	0 100 100	25, 25, 25, 29	0
4	С	6/6~(100%)	-0.05	0 100 100	23, 29, 39, 40	0
All	All	148/154~(96%)	-0.23	3 (2%) 65 68	14, 24, 43, 72	1 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	61	GLU	3.8
1	А	90	THR	3.6
1	А	194	GLY	2.3

## 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)

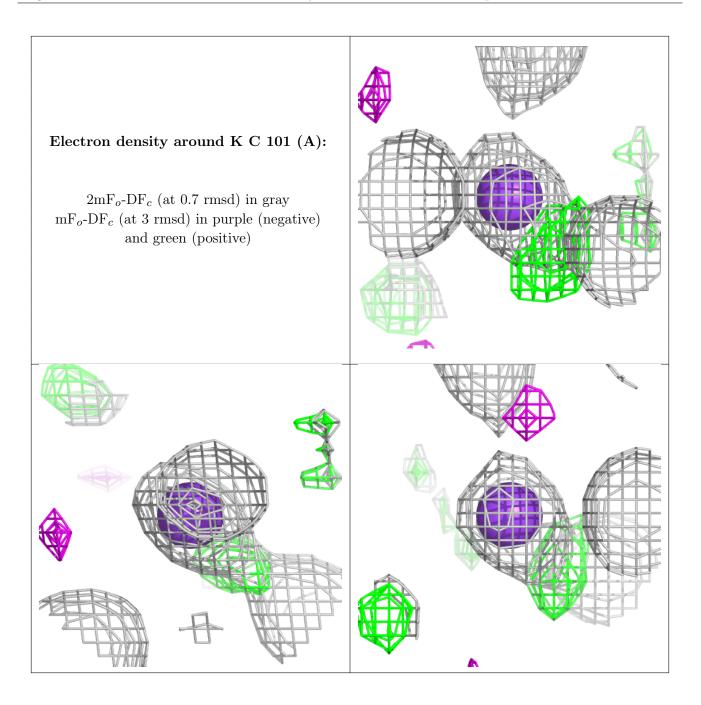
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.



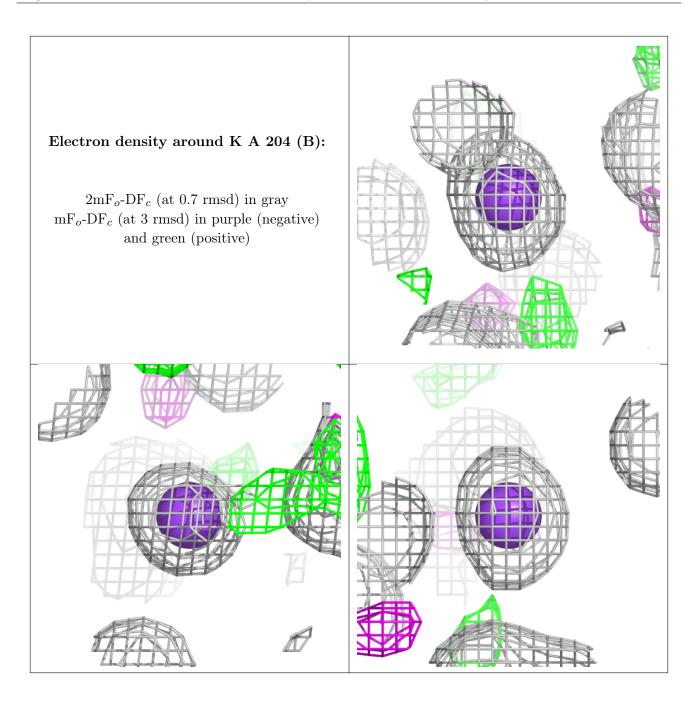
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
8	GOL	А	210	6/6	0.69	0.21	69,70,76,79	0
8	GOL	А	208	6/6	0.77	0.15	53,57,59,61	0
8	GOL	А	209	6/6	0.80	0.15	50,58,61,62	0
8	GOL	А	211	6/6	0.83	0.43	81,87,106,125	0
8	GOL	А	213	6/6	0.83	0.26	34,54,65,69	0
8	GOL	А	214	6/6	0.86	0.18	48,59,64,66	0
6	K	С	101[A]	1/1	0.91	0.08	40,40,40,40	1
8	GOL	А	212	6/6	0.93	0.38	30,115,138,151	0
7	IOD	А	206	1/1	0.95	0.05	46,46,46,46	1
6	Κ	А	204[B]	1/1	0.95	0.09	28,28,28,28	1
6	K	А	203[C]	1/1	0.97	0.16	27,27,27,27	1
5	MG	А	202	1/1	0.99	0.04	20,20,20,20	0
7	IOD	А	207	1/1	0.99	0.04	39,39,39,39	1
5	MG	А	201	1/1	0.99	0.07	21,21,21,21	0
7	IOD	А	205	1/1	1.00	0.03	19,19,19,19	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.

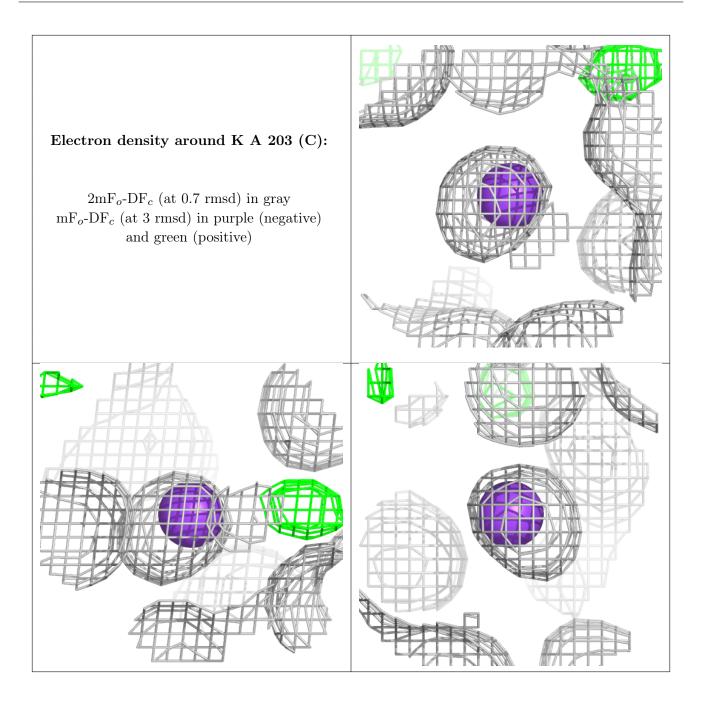




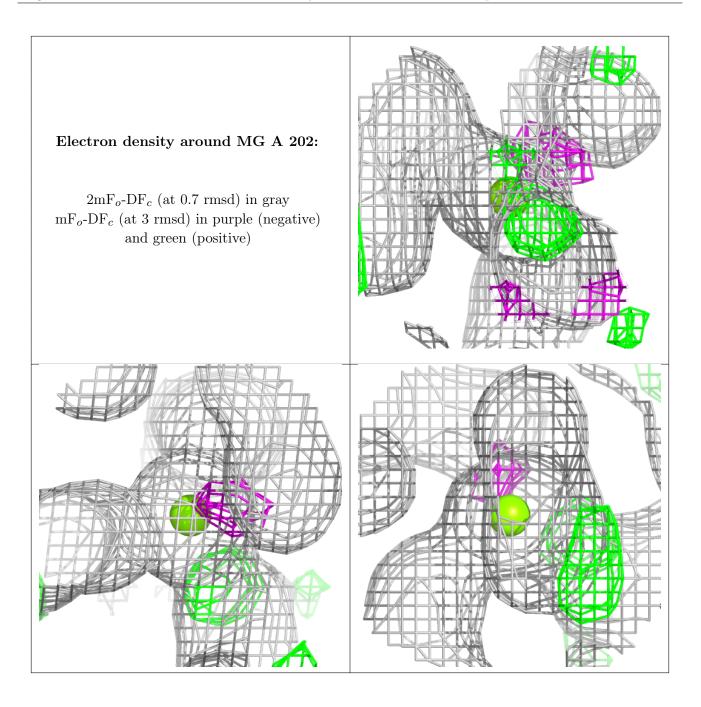




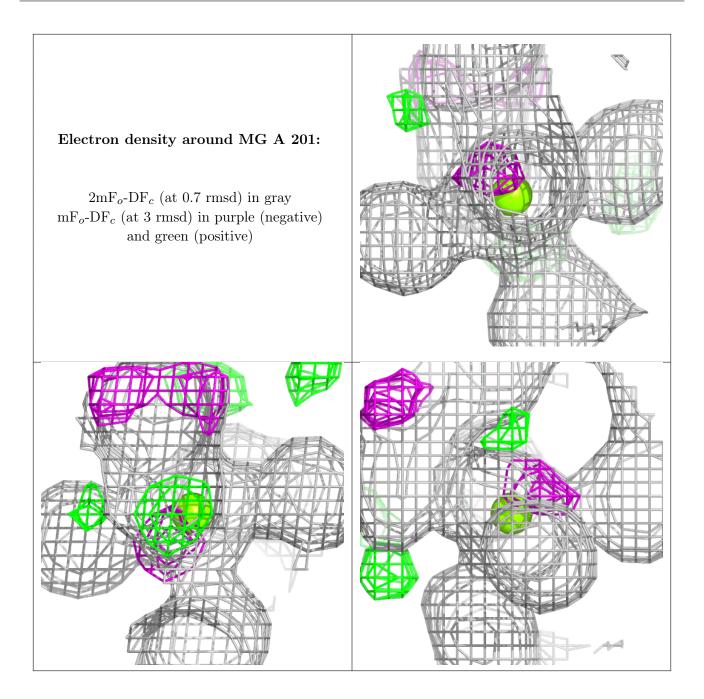












## 6.5 Other polymers (i)

There are no such residues in this entry.

