

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

#### Mar 3, 2024 - 05:26 PM EST

PDB ID	:	6DOC
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 240 s at 21 C
Authors	:	Samara, N.L.; Yang, W.
Deposited on	:	2018-06-09
Resolution	:	1.50 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 (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:

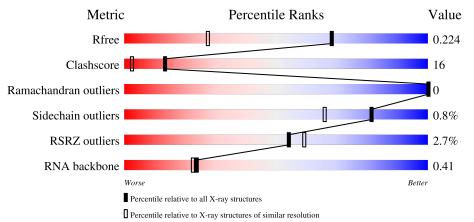
MolProbity		4 02b 467
Morriobity	•	4.020-407
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

# 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.50 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	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)
RNA backbone	3102	1015 (2.36-0.86)

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	3% 77%		18%	·			
2	В	4	50%	25%	25%				
3	b	2	50%	50%	6				

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Mol	Chain	Length	Quality	of chain
4	С	6	50%	50%

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	А	206	-	-	Х	-
8	EDO	А	209	-	-	Х	-
8	EDO	А	211	-	-	Х	Х



#### 6DOC

# 2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 2610 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	
1	А	136	Total 2096	C 725	Н 963	N 188	0 218	$\frac{S}{2}$	0	3	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 RNA (5'-R(\*AP\*CP\*AP\*U)-3').

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	4	Total 88	C 42	N 15	O 28	Р 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		
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	Atoms			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

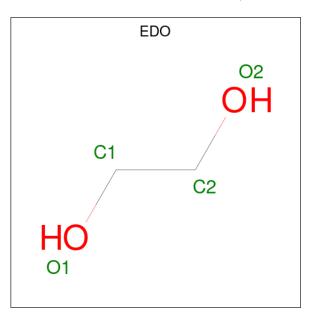
• Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

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	4	Total I 4 4	0	0

• Molecule 8 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



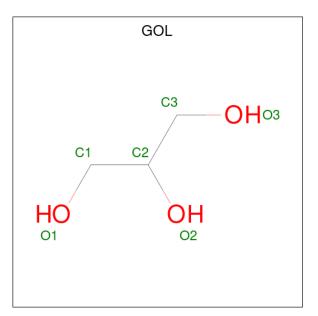
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
8	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

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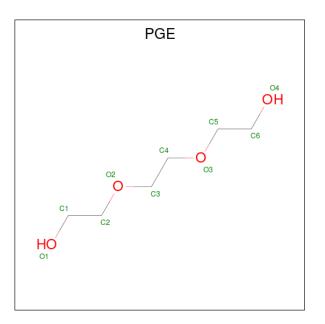
I	Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
	8	А	1	Total 4	${ m C} 2$	O 2	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 6  3  3 \end{array}$	0	0
9	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 6  3  3 \end{array}$	0	0
9	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	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 10 6	0 4	0	0

• Molecule 11 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	А	156	Total O 156 156	0	1
11	В	13	Total         O           13         13	0	0
11	b	4	Total O 4 4	0	2
11	С	20	TotalO2020	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.

Chain A:	77%	18%	·
GLY SER HIS MET ALA LYS E61	164 164 164 164 874 874 878 180 187 180 187 199 199 199 1102 1102 1102 1102 1102 11	K138 D142 D142 E154 C148 C148 C148 C148 C156 E175 E175 C182	1163 D184 G194 R195 K196
• Molecule	e 2: RNA $(5'-R(*AP*CP*AP*U)-3')$		
Chain B:	50% 2	5% 25%	_
A1 C2 U4			
• Molecule	e 3: RNA $(5'-R(P*CP*G)-3')$		
Chain b:	50%	50%	_
<mark>8</mark> 2			
• Molecule	e 4: DNA $(5'-D(*CP*GP*AP*TP*GP*')$	Г)-3')	
Chain C:	50%	50%	_
C1 62 165 165 165 165 165 165 165 17 17 165 17 165 17 17 17 17 17 17 17 17 17 17 17 17 17			

• Molecule 1: Ribonuclease H



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	81.38Å 37.94Å 61.91Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $96.31^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	23.47 - 1.50	Depositor
Resolution (A)	23.47 - 1.50	EDS
% Data completeness	94.0 (23.47-1.50)	Depositor
(in resolution range)	$94.1\ (23.47-1.50)$	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.29 (at 1.49 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
D D.	0.188 , $0.221$	Depositor
$R, R_{free}$	0.189 , $0.224$	DCC
$R_{free}$ test set	1405 reflections $(4.89\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	17.9	Xtriage
Anisotropy	0.135	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.37, $51.8$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.51, \langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	2610	wwPDB-VP
Average B, all atoms $(Å^2)$	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.78% 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, PGE, K, EDO, IOD, GOL

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	Boi	nd lengths	Bond angles		
		RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.52	0/1165	0.66	0/1576	
2	В	0.97	0/110	1.43	2/166~(1.2%)	
3	b	1.98	2/70~(2.9%)	1.49	0/103	
4	С	1.09	0/135	1.20	0/207	
All	All	0.76	2/1480~(0.1%)	0.87	2/2052~(0.1%)	

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	b	5[B]	С	OP3-P	-10.65	1.48	1.61
3	b	5[C]	С	OP3-P	-10.65	1.48	1.61

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	4[B]	U	O5'-P-OP2	-5.62	100.64	105.70
2	В	4[C]	U	O5'-P-OP2	-5.62	100.64	105.70

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	1133	963	1124	36	0
2	В	88	0	49	4	0
3	b	47	0	16	0	0
4	С	121	0	70	3	0
5	А	2	0	0	0	0
6	А	2	0	0	0	0
6	С	1	0	0	0	0
7	А	4	0	0	2	0
8	А	16	0	23	17	0
9	А	24	0	31	8	0
9	С	6	0	8	3	0
10	А	10	0	14	3	0
11	А	156	0	0	4	2
11	В	13	0	0	0	0
11	С	20	0	0	2	0
11	b	4	0	0	0	0
All	All	1647	963	1335	45	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 16.

The worst 5 of 45 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'	1.70	0.90
1:A:61:GLU:HG2	1:A:182:GLN:HE22	1.43	0.82
8:A:209:EDO:H11	4:C:4:DT:H2'	1.65	0.77
1:A:99:PRO:HB2	8:A:210:EDO:H12	1.69	0.75
1:A:80:ILE:HD13	8:A:210:EDO:H21	1.70	0.74

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:302:HOH:O	11:A:302:HOH:O[2_656]	1.74	0.46
11:A:402:HOH:O	11:A:402:HOH:O[2_656]	1.76	0.44



### 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	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	А	123/124~(99%)	122~(99%)	1 (1%)	81 66	

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

Mol	Chain	Res	Type
1	А	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	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 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	Turne	Chain	Dec	Link	B	ond leng	gths	В	Bond ang	gles
	Type	Chain	$\operatorname{Res}$		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
9	GOL	А	215	-	5,5,5	0.41	0	$5,\!5,\!5$	0.25	0
9	GOL	А	213	-	5,5,5	0.33	0	$5,\!5,\!5$	0.73	0
8	EDO	А	211	-	3,3,3	0.60	0	2,2,2	0.12	0
9	GOL	С	102	-	5,5,5	0.32	0	$5,\!5,\!5$	0.59	0
8	EDO	А	210	-	3,3,3	0.53	0	2,2,2	0.14	0
9	GOL	А	214	-	5,5,5	0.40	0	$5,\!5,\!5$	0.24	0
8	EDO	А	208	-	3,3,3	0.47	0	2,2,2	0.58	0
8	EDO	А	209	-	3,3,3	0.49	0	2,2,2	0.42	0
9	GOL	А	212	-	5,5,5	0.40	0	$5,\!5,\!5$	0.33	0
10	PGE	А	216	-	9,9,9	0.33	0	8,8,8	0.33	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	$\operatorname{Res}$	Link	Chirals	Torsions	Rings
	9	GOL	А	215	-	-	0/4/4/4	-
						Continue contract c	nued on nex	t page
						Conti		t

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

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There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	А	212	GOL	O1-C1-C2-O2
9	А	212	GOL	O1-C1-C2-C3
9	А	213	GOL	O1-C1-C2-C3
10	А	216	PGE	O2-C3-C4-O3
10	А	216	PGE	O1-C1-C2-O2

There are no ring outliers.

10 monomers are involved in 31 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	А	215	GOL	3	0
9	А	213	GOL	1	0
8	А	211	EDO	10	0
9	С	102	GOL	3	0
8	А	210	EDO	2	0
9	А	214	GOL	3	0
8	А	208	EDO	1	0
8	А	209	EDO	4	0
9	А	212	GOL	1	0
10	А	216	PGE	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,  $95^{th}$  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%)	-0.13	4 (2%) 51 56	13, 22, 42, 62	1 (0%)
2	В	4/4 (100%)	0.31	0 100 100	23, 27, 35, 35	0
3	b	2/2~(100%)	-0.11	0 100 100	27, 27, 27, 31	0
4	С	6/6~(100%)	-0.16	0 100 100	23, 28, 40, 40	0
All	All	148/154~(96%)	-0.12	4 (2%) 54 59	13, 23, 41, 62	1 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	194	GLY	2.6
1	А	196	LYS	2.5
1	А	61	GLU	2.5
1	А	90	THR	2.1

### 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.

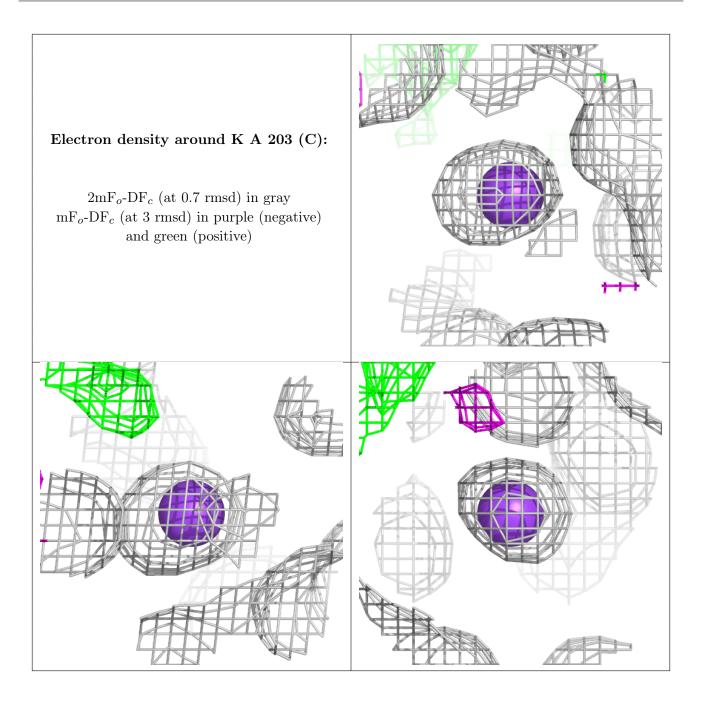


61		$\cap$	$\cap$
01	$\mathcal{D}$	$\mathbf{U}$	U

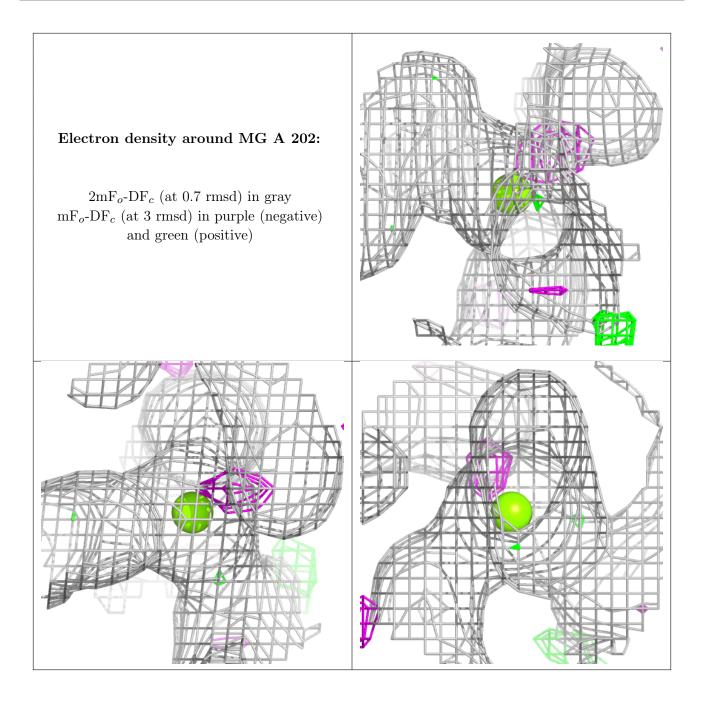
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
8	EDO	А	211	4/4	0.41	0.41	$51,\!69,\!79,\!88$	0
9	GOL	А	215	6/6	0.60	0.29	60,65,74,86	0
9	GOL	С	102	6/6	0.76	0.17	54,62,68,69	0
9	GOL	А	213	6/6	0.77	0.16	$38,\!56,\!59,\!63$	0
8	EDO	А	210	4/4	0.78	0.25	47,52,52,53	0
9	GOL	А	214	6/6	0.79	0.16	43,56,58,64	0
8	EDO	А	209	4/4	0.81	0.15	32,34,38,41	0
8	EDO	А	208	4/4	0.85	0.11	34,38,44,50	0
10	PGE	А	216	10/10	0.85	0.26	38,55,71,75	0
6	Κ	А	203[C]	1/1	0.89	0.09	28,28,28,28	1
9	GOL	А	212	6/6	0.90	0.16	$26,\!65,\!67,\!69$	0
5	MG	А	202	1/1	0.95	0.09	18,18,18,18	0
6	Κ	С	101[A]	1/1	0.96	0.07	35,35,35,35	1
7	IOD	А	207	1/1	0.96	0.05	44,44,44,44	1
5	MG	А	201	1/1	0.96	0.05	20,20,20,20	0
7	IOD	А	205	1/1	0.99	0.03	32,32,32,32	1
6	Κ	А	217[B]	1/1	0.99	0.09	21,21,21,21	1
7	IOD	А	206	1/1	1.00	0.03	30,30,30,30	1
7	IOD	А	204	1/1	1.00	0.10	$15,\!15,\!15,\!15$	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.

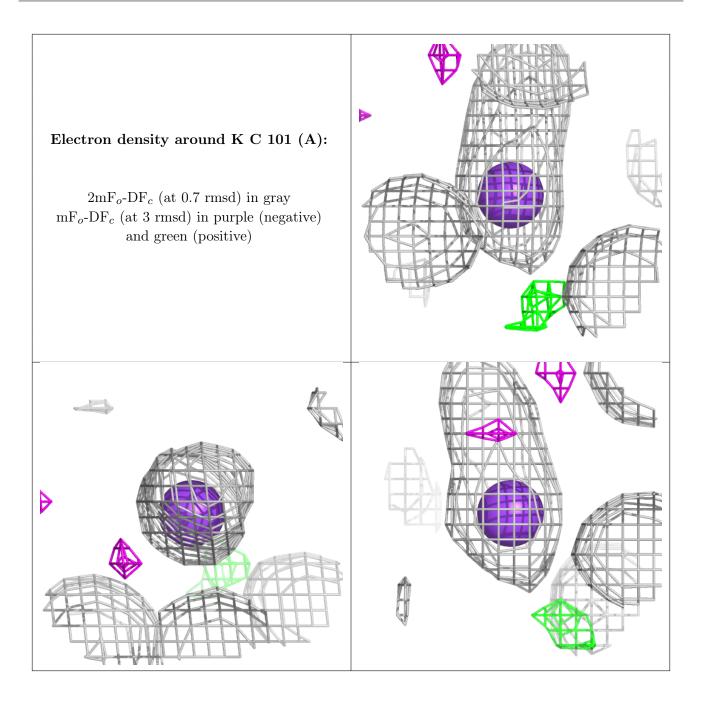




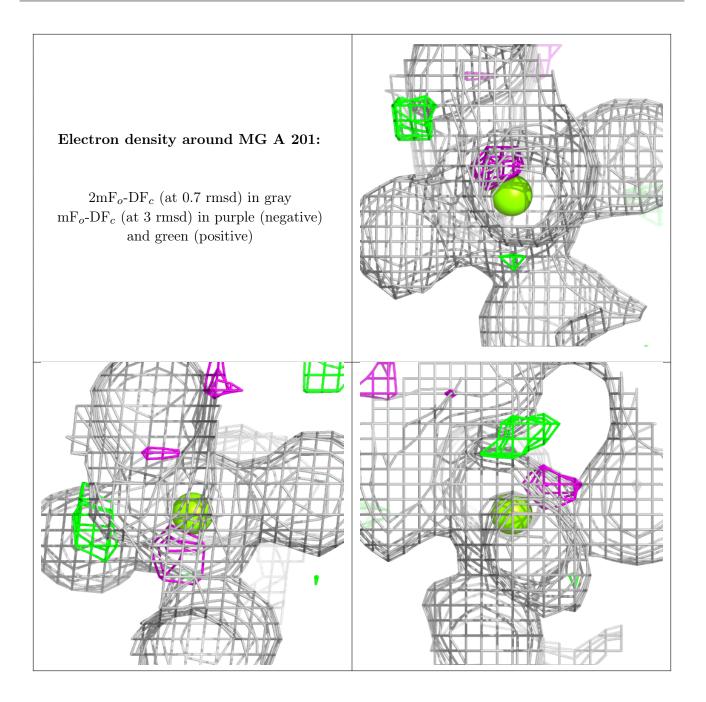




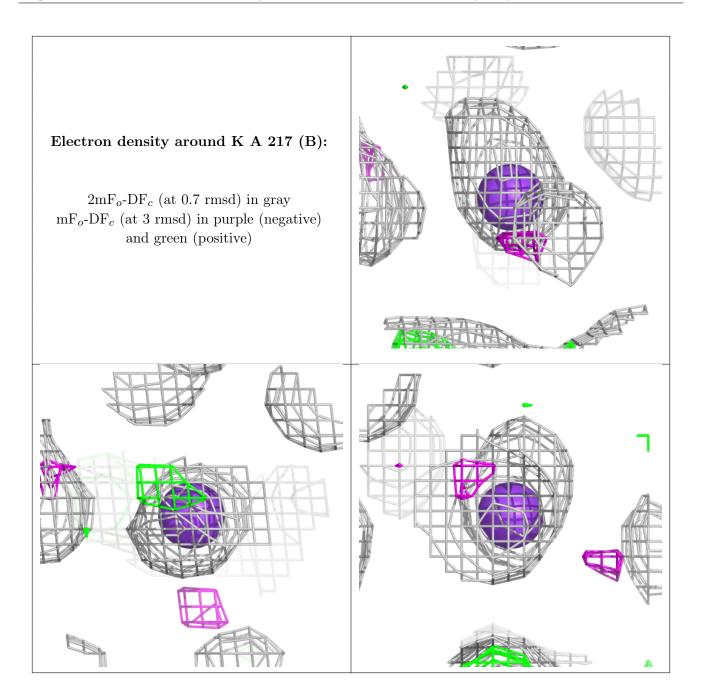












## 6.5 Other polymers (i)

There are no such residues in this entry.

