

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

#### Sep 19, 2023 – 02:13 PM JST

PDB ID	:	8H0L
Title	:	Sulfur binding domain of Hga complexed with phosphorothioated DNA
Authors	:	Liu, G.; He, X.; Hu, W.; Yang, B.; Xiao, Q.
Deposited on		
Resolution	:	1.80  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 (1)) were used in the production of this report:

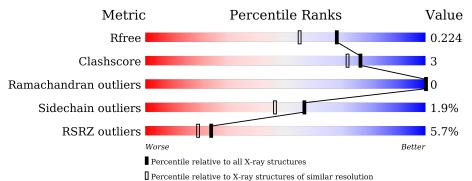
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal 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 1.80 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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R <sub>free</sub>	130704	5950(1.80-1.80)
Clashscore	141614	6793(1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	163	5% 87%	6% 7%				
1	В	163	6% 81%	8% • 10%				
2	D	10	100%					
2	F	10	70%	30%				
3	С	10	70%	30%				
3	Е	10	70%	30%				



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3514 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	152	Total	С	Ν	0	S	0	0	0
	A	152	1246	784	222	236	4	0		
1	В	146	Total	С	Ν	0	S	0	0	0
	D	140	1198	757	212	225	4	0	0	0

• Molecule 1 is a protein called SBDHga1.

• Molecule 2 is a DNA chain called DNA (5'-D(\*GP\*CP\*CP\*GP\*AP\*AP\*CP\*TP\*CP\*G)-3 ').

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
0	D	10	Total	С	Ν	Ο	Р	0	0	0
	D	10	201	96	39	57	9	0		
0	Г	10	Total	С	Ν	Ο	Р	0	0	0
	Г	10	201	96	39	57	9	0		

• Molecule 3 is a DNA chain called DNA (5'-D(\*CP\*GP\*AP\*GP\*(PST)P\*TP\*CP\*GP\*GP\*CP)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
2	C	10	Total	С	Ν	Ο	Р	S	0	0	0
5		10	203	97	38	58	9	1	0		
2	F	10	Total	С	Ν	Ο	Р	S	0	0	0
5	Ľ	10	203	97	38	58	9	1	0		

• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Mg 1 1	0	0
4	F	1	Total Mg 1 1	0	0

• Molecule 5 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	103	Total O 103 103	0	0
5	В	70	Total O 70 70	0	0
5	D	22	TotalO2222	0	0
5	С	30	Total         O           30         30	0	0
5	Е	21	TotalO2121	0	0
5	F	14	Total O 14 14	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.

Chain A:	87%	6% 7%
	6770	070 770
GLY SER HIS R1 S2 S2 S2 L42 L42 L42 L42 L42 L42 L42 L42 L47 C47 C47 C47 C47 C47 C47 C47 C47 C47 C	L80 146 1118 1145 1145 1145 1145 1145 1145 1145	ASN TRP
• Molecule 1: SBDHga	1	
Chain B:	81%	8% • 10%
CLY SER HIS NIS SER NIS E5 A28 A28 A28 A28 A28 A28 A28 A28 A28 A28	<b>443</b> KK5 E63 E63 F76 76 76 76 7100 T100 T100 A108 A108 Y115	E120 L125 L125 L125 L145 L145 SER L145 SER L145 SER L145 SER ASN ASN ASN ASN ASN
• Molecule 2: DNA (5'	-D(*GP*CP*CP*GP*AP*AI	P*CP*TP*CP*G)-3')
Chain D:	100%	
There are no outlier rea	sidues recorded for this chain	L.
• Molecule 2: DNA (5 <sup>*</sup> )	-D(*GP*CP*CP*GP*AP*AI	P*CP*TP*CP*G)-3')
Chain F:	70%	30%
• Molecule 3: DNA (5%	-D(*CP*GP*AP*GP*(PST)]	P*TP*CP*GP*GP*C)-3')
Chain C:	70%	30%
<mark>8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 </mark>		
• Molecule 3: DNA (5'	-D(*CP*GP*AP*GP*(PST)I	P*TP*CP*GP*GP*C)-3')
10%		
Chain E:	70%	30%
	WORLDWI	D E

• Molecule 1: SBDHga1







## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	39.87Å 57.53Å 177.36Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	24.13 - 1.80	Depositor
Resolution (A)	24.13 - 1.80	EDS
% Data completeness	99.2 (24.13-1.80)	Depositor
(in resolution range)	99.2 (24.13-1.80)	EDS
R <sub>merge</sub>	0.13	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$4.82 (at 1.80 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19_4092	Depositor
D D.	0.198 , $0.224$	Depositor
$R, R_{free}$	0.201 , $0.224$	DCC
$R_{free}$ test set	1997 reflections $(5.21\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	29.1	Xtriage
Anisotropy	0.692	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35, 45.1	EDS
L-test for twinning <sup>2</sup>	$ L  > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3514	wwPDB-VP
Average B, all atoms $(Å^2)$	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.71% 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: PST, 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		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.39	0/1275	0.63	0/1720	
1	В	0.40	0/1227	0.66	0/1657	
2	D	0.90	0/225	0.95	0/345	
2	F	0.90	0/225	0.90	0/345	
3	С	0.97	0/204	0.96	0/311	
3	Е	0.93	0/204	1.03	0/311	
All	All	0.58	0/3360	0.75	0/4689	

There are no bond length outliers.

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	1246	0	1206	4	0
1	В	1198	0	1157	7	1
2	D	201	0	113	0	0
2	F	201	0	113	2	0
3	С	203	0	113	1	0
3	Е	203	0	111	1	0
4	А	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	1	0	0	0	0
5	А	103	0	0	0	0
5	В	70	0	0	0	0
5	С	30	0	0	0	0
5	D	22	0	0	0	0
5	Ε	21	0	0	0	0
5	F	14	0	0	0	0
All	All	3514	0	2813	14	1

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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 3.

All (14) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
3:E:1:DC:H2"	3:E:2:DG:OP2	1.94	0.67
1:B:2:SER:OG	1:B:5:GLU:HG3	1.97	0.64
1:B:95:ARG:O	1:B:95:ARG:HD2	2.02	0.59
1:A:1:MET:HB2	1:A:5:GLU:OE1	2.07	0.55
1:A:2:SER:N	1:A:5:GLU:OE1	2.22	0.55
3:C:1:DC:H2'	3:C:2:DG:C8	2.48	0.48
1:B:89:GLN:OE1	1:B:89:GLN:HA	2.15	0.46
2:F:2:DC:H2'	2:F:3:DC:C6	2.51	0.46
1:A:64:LEU:O	1:A:151:LYS:HG3	2.16	0.45
1:B:59:LYS:O	1:B:63:GLU:HG3	2.15	0.45
1:B:18:ARG:HG3	2:F:8:DT:H4'	1.99	0.44
1:A:42:LEU:HD21	1:A:47:ILE:HG12	2.03	0.41
1:B:101:MET:O	1:B:108:ALA:HB1	2.21	0.40
1:B:125:LEU:HB3	1:B:131:VAL:HG11	2.02	0.40

All (1) 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)
1:B:99:LYS:NZ	$1:B:120:GLU:OE1[4_535]$	1.95	0.25



## 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	150/163~(92%)	147 (98%)	3~(2%)	0	100 100	
1	В	144/163~(88%)	142 (99%)	2(1%)	0	100 100	)
All	All	294/326~(90%)	289~(98%)	5(2%)	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	135/144~(94%)	132~(98%)	3~(2%)	52 39		
1	В	129/144~(90%)	127~(98%)	2(2%)	62 54		
All	All	264/288~(92%)	259~(98%)	5(2%)	57 46		

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	140	ASP
1	А	149	SER
1	А	150	ARG
1	В	98	TYR
1	В	99	LYS

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



#### 5.3.3 RNA (i)

There are no RNA molecules in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains (i)

2 non-standard protein/DNA/RNA residues 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		hain Res	Link	В	Bond lengths			Bond angles		
WIOI	туре	Ullalli	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
3	PST	Е	5	3,2	18,21,22	5.04	15 (83%)	26,30,33	1.79	5 (19%)	
3	PST	С	5	3,2	18,21,22	<b>5.02</b>	15 (83%)	26,30,33	2.14	8 (30%)	

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
3	PST	Е	5	3,2	-	3/7/21/22	0/2/2/2
3	PST	С	5	3,2	-	3/7/21/22	0/2/2/2

All (30) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	Ε	5	PST	C2'-C3'	-11.17	1.23	1.52
3	С	5	PST	C2'-C3'	-11.02	1.23	1.52
3	Ε	5	PST	C6-C5	9.01	1.49	1.34
3	С	5	PST	C6-C5	8.72	1.48	1.34
3	С	5	PST	O4'-C4'	-7.84	1.27	1.45
3	Е	5	PST	O4'-C4'	-7.66	1.27	1.45
3	Е	5	PST	C2-N1	6.46	1.48	1.38
3	С	5	PST	C2-N3	6.32	1.49	1.38
3	Е	5	PST	C2-N3	5.86	1.48	1.38
3	С	5	PST	C2-N1	5.78	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	Е	5	PST	C1'-N1	-4.83	1.35	1.48
3	С	5	PST	C1'-N1	-4.78	1.35	1.48
3	Е	5	PST	C6-N1	4.53	1.45	1.38
3	С	5	PST	C3'-C4'	4.26	1.64	1.53
3	Е	5	PST	C3'-C4'	4.25	1.64	1.53
3	С	5	PST	C6-N1	4.21	1.45	1.38
3	С	5	PST	C4-N3	3.61	1.45	1.38
3	С	5	PST	O4'-C1'	3.41	1.50	1.42
3	Е	5	PST	C4-N3	3.12	1.44	1.38
3	Е	5	PST	O4'-C1'	2.86	1.48	1.42
3	С	5	PST	O2-C2	-2.80	1.17	1.23
3	Е	5	PST	O3'-C3'	2.69	1.49	1.43
3	С	5	PST	C4-C5	2.66	1.49	1.44
3	Ε	5	PST	O4-C4	-2.65	1.18	1.23
3	Ε	5	PST	O2-C2	-2.63	1.18	1.23
3	С	5	PST	O3'-C3'	2.63	1.48	1.43
3	С	5	PST	O4-C4	-2.62	1.18	1.23
3	Е	5	PST	C2'-C1'	2.32	1.58	1.52
3	Е	5	PST	C4-C5	2.22	1.48	1.44
3	С	5	PST	C2'-C1'	2.01	1.58	1.52

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All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	С	5	PST	C4-N3-C2	-5.23	120.58	127.35
3	С	5	PST	C5-C4-N3	4.54	119.18	115.31
3	Е	5	PST	C5-C4-N3	4.40	119.06	115.31
3	Е	5	PST	C4-N3-C2	-4.13	122.00	127.35
3	С	5	$\mathbf{PST}$	N3-C2-N1	3.83	119.98	114.89
3	Е	5	PST	O4-C4-C5	-3.65	120.67	124.90
3	С	5	PST	O4-C4-C5	-3.47	120.89	124.90
3	Е	5	PST	N3-C2-N1	3.35	119.33	114.89
3	С	5	PST	O2-C2-N1	-3.14	118.61	122.79
3	С	5	PST	C5-C6-N1	-2.79	120.47	123.34
3	С	5	PST	C5M-C5-C6	-2.41	119.63	122.85
3	Е	5	PST	C6-N1-C2	-2.36	118.91	121.30
3	С	5	PST	C6-C5-C4	2.29	119.94	118.03

There are no chirality outliers.

All (6) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
3	С	5	PST	C3'-C4'-C5'-O5'
3	С	5	PST	O4'-C4'-C5'-O5'
3	Е	5	PST	C3'-C4'-C5'-O5'
3	Е	5	PST	O4'-C4'-C5'-O5'
3	С	5	PST	C4'-C5'-O5'-P
3	Е	5	PST	C4'-C5'-O5'-P

There are no ring outliers.

No monomer is involved in short contacts.

#### 5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

#### 5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 2 are 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 (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	$OWAB(A^2)$	$\mathbf{Q}{<}0.9$
1	А	152/163~(93%)	0.31	8 (5%) 26 21	24, 33, 61, 86	0
1	В	146/163~(89%)	0.56	10 (6%) 17 13	24, 38, 59, 85	0
2	D	10/10~(100%)	-0.31	0 100 100	29, 36, 47, 56	0
2	F	10/10~(100%)	-0.32	0 100 100	32, 41, 48, 60	0
3	С	9/10 (90%)	-0.22	0 100 100	27, 33, 50, 58	0
3	Е	9/10 (90%)	-0.06	1 (11%) 5 4	28, 32, 64, 70	0
All	All	336/366~(91%)	0.36	19 (5%) 23 19	24, 36, 62, 86	0

All (19) RSRZ outliers are listed below:

Mol			Type	RSRZ
1	В	146	THR	7.4
1	В	145	ILE	6.4
1	А	145	ILE	5.5
1	А	148	THR	4.5
1	В	30	LEU	3.2
1	В	99	LYS	2.8
1	А	76	PRO	2.7
1	В	29	MET	2.6
1	А	75	LEU	2.4
1	В	115	TYR	2.3
1	А	77	TYR	2.2
1	В	76	PRO	2.2
1	А	86	TRP	2.2
1	А	118	LEU	2.1
3	Е	1	DC	2.1
1	В	43	GLN	2.1
1	В	27	ILE	2.1
1	В	33	VAL	2.0
1	А	80	LEU	2.0



### 6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	PST	С	5	20/21	0.96	0.14	22,26,30,30	0
3	PST	Е	5	20/21	0.97	0.14	21,26,30,32	0

### 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
4	MG	F	101	1/1	0.95	0.05	33,33,33,33	0
4	MG	А	201	1/1	0.96	0.14	30,30,30,30	0

### 6.5 Other polymers (i)

There are no such residues in this entry.

