

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

#### Nov 6, 2023 – 01:21 PM EST

PDB ID : 4DXI

Title : Crystal Structure of an Ancestor of All Faviina Proteins

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Deposited on : 2012-02-27

Resolution : 1.60 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 EDS : 2.36

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove) roteins) : Engh & Huber (2001)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

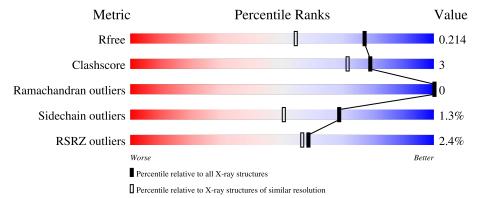
Validation Pipeline (wwPDB-VP) : 2.36

### 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.60 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{\rm A})}) \end{array}$
$R_{free}$	130704	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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	A	229	91%	• 5%
1	В	229	93%	
1	С	229	89%	7% •
1	D	229	87%	7% 5%



### 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 8082 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 GREEN FLUORESCENT PROTEIN.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	218	Total	С	N	О	S	0	3	0
1	1 A	210	1788	1148	293	334	13	0	0	
1	1 B 222	222	Total	С	N	О	S	0	2	0
1		222	1811	1161	297	340	13	U		U
1	1 C 2	220	Total	С	N	О	S	0	2	0
1			1798	1153	295	337	13	0	2	
1	1 D	D 010	Total	С	N	О	S	0	1	0
	218	1777	1141	292	332	12	0   1			

• Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	224	Total O 224 224	0	0
3	В	228	Total O 228 228	0	0
3	С	224	Total O 224 224	0	0
3	D	231	Total O 231 231	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.

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain A:

91%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain B:

93%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain C:

89%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain C:

89%

7%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain C:

89%

7%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain C:

89%

7%

• Molecule 1: GREEN FLUORESCENT PROTEIN

Chain D:

87%

• Molecule 1: GREEN FLUORESCENT PROTEIN



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	106.49Å 93.06Å 89.00Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $92.72^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	28.12 - 1.60	Depositor
Resolution (A)	28.12 - 1.60	EDS
% Data completeness	98.2 (28.12-1.60)	Depositor
(in resolution range)	98.2 (28.12-1.60)	EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.76  (at  1.60Å)	Xtriage
Refinement program	REFMAC 5.5.0110	Depositor
D D.	0.173 , 0.210	Depositor
$R, R_{free}$	0.177 , $0.214$	DCC
$R_{free}$ test set	5612 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	16.9	Xtriage
Anisotropy	0.031	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.33, 40.6	EDS
L-test for twinning <sup>2</sup>	$< L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	0.024 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	8082	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.77% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $<L^2>$  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: CRQ, 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		
MIOI		RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.53	0/1812	0.70	0/2441	
1	В	0.54	0/1832	0.70	0/2469	
1	С	0.51	0/1819	0.70	0/2451	
1	D	0.55	0/1798	0.71	0/2423	
All	All	0.53	0/7261	0.70	0/9784	

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	A	1788	0	1734	8	0
1	В	1811	0	1752	7	0
1	С	1798	0	1741	9	0
1	D	1777	0	1721	17	1
2	A	1	0	0	0	0
3	A	224	0	0	3	0
3	В	228	0	0	3	0
3	С	224	0	0	3	0
3	D	231	0	0	2	0
All	All	8082	0	6948	39	1



The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 3.

All (39) 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:B:164:GLU:O	3:B:522:HOH:O	2.07	0.73
1:C:94:THR:HA	1:C:100:ILE:HD13	1.74	
1:C:94:1HK:HA 1:C:222:MET:O	1:C:100:1LE:HD15 1:C:223:THR:HB	1.74	0.69 0.68
1:D:140:GLU:OE2	1:D:168:HIS:HE1	1.78	0.66
1:A:154[A]:MET:SD	3:A:532:HOH:O	2.54	0.66
1:D:184:GLN:NE2	1:D:184:GLN:HA	2.14	0.61
1:B:140:GLU:OE2	1:B:168:HIS:HE1	1.85	0.60
1:A:168:HIS:HD2	3:B:311:HOH:O	1.83	0.59
1:C:94:THR:HG23	1:C:100:ILE:HD11	1.84	0.59
1:A:181:LYS:HG2	3:A:461:HOH:O	2.03	0.58
1:D:94:THR:HA	1:D:100:ILE:HD13	1.87	0.57
1:D:184:GLN:HA	1:D:184:GLN:HE21	1.68	0.56
3:A:418:HOH:O	1:B:168:HIS:HD2	1.88	0.56
3:C:301:HOH:O	1:D:168:HIS:HD2	1.89	0.56
1:A:140:GLU:OE2	1:A:168:HIS:HE1	1.89	0.56
1:C:184:GLN:HG3	3:C:492:HOH:O	2.05	0.56
1:C:140:GLU:OE2	1:C:168:HIS:HE1	1.90	0.54
1:C:168:HIS:HD2	3:D:347:HOH:O	1.92	0.52
1:D:184:GLN:HE21	1:D:185:LEU:H	1.57	0.52
1:D:184:GLN:HE21	1:D:185:LEU:N	2.09	0.51
1:A:149:ARG:HB3	1:A:154[B]:MET:CG	2.40	0.51
1:D:184:GLN:HE21	1:D:184:GLN:CA	2.26	0.49
1:D:149:ARG:HB3	1:D:154:MET:CG	2.43	0.49
1:C:143:THR:H	1:D:145:LYS:NZ	2.13	0.47
1:D:184:GLN:NE2	1:D:184:GLN:CA	2.77	0.47
1:B:137:LEU:HD21	1:B:164:GLU:HG2	1.96	0.47
1:D:21:HIS:HE1	1:D:47:GLY:O	1.98	0.46
1:D:87:TYR:CZ	1:D:107:ILE:HD12	2.51	0.45
1:A:21:HIS:HE1	1:A:47:GLY:O	1.98	0.45
1:A:149:ARG:HB3	1:A:154[B]:MET:HG2	1.98	0.45
1:C:184:GLN:CG	3:C:492:HOH:O	2.64	0.45
1:D:17:THR:HA	1:D:21:HIS:O	2.19	0.43
1:D:184:GLN:HG2	3:D:531:HOH:O	2.19	0.43
1:D:147:TYR:HB3	1:D:188:TYR:CD1	2.55	0.42
1:C:21:HIS:HE1	1:C:47:GLY:O	2.03	0.41
1:B:19:ASN:HB3	3:B:407:HOH:O	2.21	0.41
1:D:94:THR:HG23	1:D:100:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	Clash overlap (Å)	
1:B:21:HIS:HE1	1:B:47:GLY:O	2.05	0.40	
1:A:145:LYS:NZ	1:B:143:THR:H	2.19	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-1 Atom-2		$egin{aligned} \operatorname{Clash} \ \operatorname{overlap}\ (\mathring{\mathbf{A}}) \end{aligned}$
1:D:184:GLN:NE2	1:D:184:GLN:NE2[2_555]	1.99	0.21

#### 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	Perce	ntiles
1	A	$216/229\ (94\%)$	216 (100%)	0	0	100	100
1	В	$219/229\ (96\%)$	217 (99%)	2 (1%)	0	100	100
1	C	$217/229\ (95\%)$	217 (100%)	0	0	100	100
1	D	$214/229\ (93\%)$	214 (100%)	0	0	100	100
All	All	$866/916 \ (94\%)$	864 (100%)	2 (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	Perce	entiles
1	A	193/199 (97%)	192 (100%)	1 (0%)	88	80
1	В	194/199 (98%)	193 (100%)	1 (0%)	88	80
1	С	194/199 (98%)	188 (97%)	6 (3%)	40	15
1	D	191/199 (96%)	189 (99%)	2 (1%)	76	61
All	All	772/796 (97%)	762 (99%)	10 (1%)	69	50

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	116	TYR
1	В	154	MET
1	С	4	ILE
1	С	116	TYR
1	С	145	LYS
1	С	154	MET
1	С	181	LYS
1	С	223	THR
1	D	30	GLU
1	D	184	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	HIS
1	A	168	HIS
1	В	128	ASN
1	В	168	HIS
1	С	21	HIS
1	С	168	HIS
1	D	21	HIS
1	D	168	HIS
1	D	184	GLN

#### 5.3.3 RNA (i)

There are no RNA molecules in this entry.



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

4 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	Tuno	Type Chain Res Link		Во	ond leng	$ ag{ths}$	Bond angles							
MIOI	туре	Туре	Type	Chain	Type Chain	nes	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	CRQ	D	62	1	24,25,26	1.85	5 (20%)	27,34,36	1.27	2 (7%)				
1	CRQ	A	62	1	24,25,26	2.01	5 (20%)	27,34,36	1.19	3 (11%)				
1	CRQ	В	62	1	24,25,26	1.97	5 (20%)	27,34,36	1.04	1 (3%)				
1	CRQ	С	62	1	24,25,26	1.92	5 (20%)	27,34,36	1.08	3 (11%)				

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
1	CRQ	D	62	1	-	1/10/32/33	0/2/2/2
1	CRQ	A	62	1	-	0/10/32/33	0/2/2/2
1	CRQ	В	62	1	-	0/10/32/33	0/2/2/2
1	CRQ	С	62	1	-	0/10/32/33	0/2/2/2

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(Å)
1	A	62	CRQ	CA1-N1	7.36	1.45	1.27
1	В	62	CRQ	CA1-N1	7.00	1.44	1.27
1	С	62	CRQ	CA1-N1	6.56	1.43	1.27
1	D	62	CRQ	CA1-N1	6.27	1.42	1.27
1	В	62	CRQ	CG2-CB2	-3.96	1.39	1.46
1	A	62	CRQ	CG2-CB2	-3.66	1.39	1.46
1	С	62	CRQ	CG2-CB2	-3.62	1.39	1.46
1	С	62	CRQ	CB2-CA2	3.33	1.37	1.35
1	D	62	CRQ	C1-N3	3.29	1.43	1.38
1	D	62	CRQ	CG2-CB2	-3.15	1.40	1.46
1	A	62	CRQ	CB2-CA2	2.99	1.37	1.35

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}( ext{\AA})$
1	A	62	CRQ	C1-N3	2.97	1.43	1.38
1	D	62	CRQ	CB2-CA2	2.92	1.37	1.35
1	В	62	CRQ	C1-N3	2.92	1.43	1.38
1	В	62	CRQ	CB2-CA2	2.89	1.37	1.35
1	С	62	CRQ	C1-N3	2.64	1.42	1.38
1	D	62	CRQ	CA3-N3	-2.43	1.42	1.47
1	В	62	CRQ	CA3-N3	-2.35	1.42	1.47
1	A	62	CRQ	CA3-N3	-2.27	1.42	1.47
1	С	62	CRQ	CA3-N3	-2.23	1.42	1.47

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
1	D	62	CRQ	CA2-C2-N3	5.09	105.78	103.37
1	A	62	CRQ	CA2-C2-N3	3.14	104.86	103.37
1	В	62	CRQ	CA2-C2-N3	2.93	104.76	103.37
1	С	62	CRQ	O2-C2-CA2	2.63	132.44	130.96
1	A	62	CRQ	CE2-CD2-CG2	-2.35	118.19	121.25
1	С	62	CRQ	CA2-C2-N3	2.28	104.45	103.37
1	D	62	CRQ	O3-C3-CA3	-2.25	119.61	126.39
1	С	62	CRQ	CG2-CB2-CA2	2.09	132.51	129.94
1	A	62	CRQ	O3-C3-CA3	-2.04	120.22	126.39

There are no chirality outliers.

All (1) torsion outliers are listed below:

$\mathbf{Mol}$	Chain	$\operatorname{Res}$	Type	Atoms
1	D	62	CRQ	C3-CA3-N3-C2

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 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 (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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	217/229 (94%)	0.16	4 (1%) 68 67	8, 13, 20, 25	0
1	В	221/229 (96%)	0.24	4 (1%) 68 67	9, 13, 21, 27	0
1	С	219/229 (95%)	0.20	5 (2%) 60 59	9, 13, 22, 35	0
1	D	217/229 (94%)	0.23	8 (3%) 41 39	10, 14, 23, 34	0
All	All	874/916 (95%)	0.21	21 (2%) 59 56	8, 13, 22, 35	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	223	THR	6.4
1	D	165	GLY	5.6
1	D	221	PRO	5.6
1	В	224	ALA	4.9
1	D	219	LEU	4.2
1	A	165	GLY	3.7
1	D	3	VAL	3.5
1	D	220	LEU	3.2
1	В	225	ALA	2.7
1	В	2	SER	2.7
1	D	2	SER	2.7
1	С	166	GLY	2.6
1	С	222	MET	2.6
1	D	73	LYS	2.4
1	С	165	GLY	2.4
1	D	166	GLY	2.4
1	A	48	ALA	2.3
1	A	49	PRO	2.2
1	С	110	GLU	2.1
1	A	166	GLY	2.1
1	В	73	LYS	2.1



#### 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	CRQ	A	62	24/25	0.93	0.12	9,10,11,12	0
1	CRQ	С	62	24/25	0.94	0.13	9,12,13,14	0
1	CRQ	В	62	24/25	0.95	0.12	10,11,13,13	0
1	CRQ	D	62	24/25	0.95	0.12	10,12,13,15	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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	MG	A	301	1/1	0.98	0.06	24,24,24,24	0

#### 6.5 Other polymers (i)

There are no such residues in this entry.

