

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

#### Jun 19, 2020 – 07:27 pm BST

PDB ID	:	2WFJ
Title	:	Atomic resolution crystal structure of the PPIase domain of human cyclophilin
		G in complex with cyclosporin A.
Authors	:	Stegmann, C.M.; Sheldrick, G.M.; Wahl, M.C.
Deposited on		
$\operatorname{Resolution}$	:	0.75  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 following versions of software and data (see references (1)) were used in the production of this report:

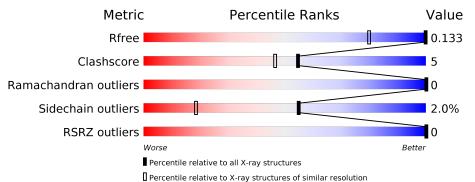
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\rm CCP4$	:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

# 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 0.75 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
$R_{free}$	130704	1082(1.04-0.48)
Clashscore	141614	1156 (1.04-0.48)
Ramachandran outliers	138981	1074(1.04-0.48)
Sidechain outliers	138945	1075(1.04-0.48)
RSRZ outliers	127900	1047 (1.04-0.48)

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 on 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	Qual	ity of chain
1	А	179	84%	10% ••••
2	В	11	36%	64%



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 1834 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 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE G.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	172	Total 1445	C 916	N 250	O 267	S 12	0	18	0

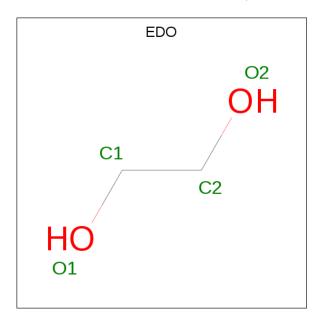
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP Q13427
А	0	ALA	-	expression tag	UNP Q13427

• Molecule 2 is a protein called CYCLOSPORIN A.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
2	В	11	Total 85	C 62	N 11	0 12	0	0	0

• Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	А	1	Total 3	$\begin{array}{c} \mathrm{C} \\ \mathrm{2} \end{array}$	0 1	0	0

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

M	ol	Chain	Residues	Atoms		ZeroOcc	AltConf
4		А	2	Total M 2 2	g 2	0	0

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Cl 1 1	0	0

• Molecule 6 is water.

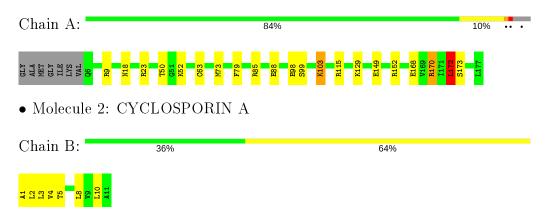
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	289	Total O 289 289	0	0
6	В	9	Total O 9 9	0	0



# 3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: PEPTIDYL-PROLYL CIS-TRANS ISOMERASE G





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	37.32Å $64.91$ Å $69.28$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	10.00 - 0.75	Depositor
Resolution (A)	47.37 - 0.75	EDS
% Data completeness	99.1 (10.00-0.75)	Depositor
(in resolution range)	98.3 (47.37 - 0.75)	EDS
R <sub>merge</sub>	0.06	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.59 (at 0.75 \text{\AA})$	Xtriage
Refinement program	SHELXL-97	Depositor
D D.	0.112 , $0.129$	Depositor
$R, R_{free}$	0.130 , $0.133$	DCC
$R_{free}$ test set	20282 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	8.8	Xtriage
Anisotropy	0.039	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.37, 97.0	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.47, \langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.99	EDS
Total number of atoms	1834	wwPDB-VP
Average B, all atoms $(Å^2)$	12.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.56% 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: ABA, MG, CL, DAL, MLE, EDO, MVA, BMT, SAR

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	Bo	nd lengths	Bond angles		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.87	5/1523~(0.3%)	1.40	27/2041~(1.3%)	
2	В	1.07	0/10	0.98	0/11	
All	All	0.87	5/1533~(0.3%)	1.39	27/2052~(1.3%)	

All (5) bond length outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	А	88[A]	GLU	CB-CG	-8.20	1.36	1.52
1	А	88[B]	GLU	CB-CG	-8.20	1.36	1.52
1	А	149	GLU	CD-OE1	6.50	1.32	1.25
1	А	168	GLU	CD-OE2	5.95	1.32	1.25
1	А	173	SER	CB-OG	-5.90	1.34	1.42

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	103[A]	LYS	CD-CE-NZ	17.54	152.05	111.70
1	А	103[B]	LYS	CD-CE-NZ	17.54	152.05	111.70
1	А	9	ARG	NE-CZ-NH1	15.70	128.15	120.30
1	А	9	ARG	NE-CZ-NH2	-15.32	112.64	120.30
1	А	115	ARG	NE-CZ-NH1	-10.55	115.03	120.30
1	А	170	ARG	NE-CZ-NH2	10.36	125.48	120.30
1	А	85	ARG	NE-CZ-NH1	8.63	124.61	120.30
1	А	115	ARG	NE-CZ-NH2	7.44	124.02	120.30
1	А	88[A]	GLU	CA-CB-CG	6.29	127.25	113.40
1	А	88[B]	GLU	CA-CB-CG	6.29	127.25	113.40
1	А	98[A]	GLU	N-CA-CB	-6.08	99.65	110.60
1	А	98[B]	GLU	N-CA-CB	-6.08	99.65	110.60
1	А	88[A]	GLU	CG-CD-OE2	-6.08	106.15	118.30
1	А	88[B]	GLU	CG-CD-OE2	-6.08	106.15	118.30

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	23	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	А	149	GLU	CG-CD-OE2	-5.97	106.36	118.30
1	А	88[A]	GLU	CG-CD-OE1	5.73	129.76	118.30
1	А	88[B]	GLU	CG-CD-OE1	5.73	129.76	118.30
1	А	172[A]	LEU	CB-CA-C	-5.52	99.71	110.20
1	А	172[B]	LEU	CB-CA-C	-5.52	99.71	110.20
1	А	172[A]	LEU	CB-CG-CD1	-5.40	101.82	111.00
1	А	172[B]	LEU	CB-CG-CD1	-5.40	101.82	111.00
1	А	172[A]	LEU	CD1-CG-CD2	5.30	126.41	110.50
1	А	172[B]	LEU	CD1-CG-CD2	5.30	126.41	110.50
1	А	172[A]	LEU	CB-CG-CD2	-5.19	102.18	111.00
1	А	172[B]	LEU	CB-CG-CD2	-5.19	102.18	111.00
1	А	85	ARG	NH1-CZ-NH2	-5.15	113.74	119.40

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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	1445	0	1448	10	0
2	В	85	0	110	6	0
3	А	3	0	3	1	0
4	А	2	0	0	0	0
5	А	1	0	0	0	0
6	А	289	0	0	5	0
6	В	9	0	0	0	0
All	All	1834	0	1561	16	0

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 5.

All (16) 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)
2:B:8:MLE:HD13	2:B:10:MLE:HD22	1.74	0.68
1:A:152[B]:ARG:NH2	6:A:2242:HOH:O	1.92	0.68
2:B:8:MLE:HD13	2:B:10:MLE:CD2	2.31	0.60
2:B:1:DAL:C	2:B:3:MLE:HN1	2.41	0.51
1:A:103[A]:LYS:NZ	6:A:2186:HOH:O	2.44	0.51
1:A:18[A]:ASN:OD1	1:A:170:ARG:NH2	2.47	0.48
1:A:63[B]:CYS:SG	1:A:79:PHE:HB3	2.54	0.47
1:A:63[B]:CYS:SG	1:A:79:PHE:HA	2.55	0.47
1:A:63[B]:CYS:SG	6:A:2119:HOH:O	2.61	0.45
2:B:1:DAL:HA	2:B:2:MLE:HN1	1.67	0.43
1:A:52[B]:LYS:HD3	6:A:2164:HOH:O	2.19	0.43
1:A:129:LYS:NZ	6:A:2216:HOH:O	2.52	0.42
2:B:4:MVA:HA	2:B:5:BMT:HN1	1.86	0.41
1:A:99:SER:OG	3:A:1184:EDO:H11	2.21	0.41
2:B:2:MLE:N	2:B:3:MLE:HN1	2.36	0.40

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 Out		Outliers	Perce	entiles	
1	А	189/179~(106%)	185~(98%)	4(2%)	0	100	100
2	В	$1/11 \ (9\%)$	1 (100%)	0	0	100	100
All	All	190/190~(100%)	186~(98%)	4(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.



Mol	Chain	Analysed	Rotameric Outliers		Percentiles		
1	А	164/151~(109%)	159~(97%)	5(3%)	41 9		
2	В	1/1~(100%)	1~(100%)	0	100 100		
All	All	165/152~(109%)	160 (97%)	5(3%)	55 9		

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

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

Mol	Chain	Res	Type
1	А	50[A]	THR
1	А	50[B]	THR
1	А	73	MET
1	А	172[A]	LEU
1	А	172[B]	LEU

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

9 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).

Mal	Mol Type Cha	Chain	Res	Link	Bo	Bond lengths			Bond angles		
		Chain	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
2	ABA	В	6	2	$4,\!5,\!6$	0.42	0	1,5,7	1.08	0	
2	MVA	В	4	2	$6,\!7,\!8$	0.48	0	$7,\!8,\!10$	1.70	2 (28%)	
2	MLE	В	2	2	$7,\!8,\!9$	0.56	0	$6,\!9,\!11$	1.16	1(16%)	
2	MLE	В	10	2	$7,\!8,\!9$	0.30	0	$6,\!9,\!11$	0.54	0	
2	BMT	В	5	2	11, 12, 13	0.61	0	$12,\!14,\!16$	0.82	0	



Mal	Mol Type	Chain	Res	Link	Bo	Bond lengths			Bond angles		
			nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2	
2	SAR	В	7	2	$^{4,4,5}$	1.02	0	$1,\!3,\!5$	2.69	1 (100%)	
2	MLE	В	8	2	$7,\!8,\!9$	0.72	0	$6,\!9,\!11$	2.32	1(16%)	
2	MLE	В	3	2	$7,\!8,\!9$	0.51	0	$6,\!9,\!11$	1.12	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
2	ABA	В	6	2	-	0/3/4/6	-
2	MVA	В	4	2	-	1/6/8/10	-
2	MLE	В	2	2	-	0/5/8/10	-
2	MLE	В	10	2	-	0/5/8/10	-
2	BMT	В	5	2	-	1/13/16/18	-
2	SAR	В	7	2	-	1/1/2/3	-
2	MLE	В	8	2	-	2/5/8/10	-
2	MLE	В	3	2	-	0/5/8/10	-

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	8	MLE	CD1-CG-CB	4.70	128.40	111.11
2	В	4	MVA	CG1-CB-CA	-2.97	106.66	111.21
2	В	7	SAR	O-C-CA	-2.69	117.64	125.42
2	В	4	MVA	CB-CA-N	2.25	114.09	111.17
2	В	2	MLE	O-C-CA	-2.05	119.40	124.78

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	8	MLE	O-C-CA-CB
2	В	5	BMT	CB-CA-N-CN
2	В	4	MVA	CB-CA-N-CN
2	В	8	MLE	N-CA-CB-CG
2	В	7	SAR	C-CA-N-CN

There are no ring outliers.



Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	4	MVA	1	0
2	В	2	MLE	2	0
2	В	10	MLE	2	0
2	В	5	BMT	1	0
2	В	8	MLE	2	0
2	В	3	MLE	2	0

6 monomers are involved in 6 short contacts:

### 5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

### 5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 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).

<b>.</b>	Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
			Chain			Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
	3	EDO	А	1184	-	2,2,3	1.12	0	$1,\!1,\!2$	2.23	1 (100%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	1184	EDO	O1-C1-C2	2.23	140.46	114.03

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	1184	EDO	1	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<sup>th</sup> 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 $>$	$\mathbf{RSRZ} >       \# \mathbf{RSRZ} > 2  $		$OWAB(Å^2)$	Q<0.9	
1	А	172/179~(96%)	-0.81	0	100	100	6, 8, 15, 45	0
2	В	2/11~(18%)	-0.62	0	100	100	13, 13, 13, 17	0
All	All	174/190~(91%)	-0.80	0	100	100	6, 8, 16, 45	0

There are no RSRZ outliers to report.

### 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	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
2	MLE	В	10	9/10	0.96	0.06	$11,\!13,\!21,\!21$	0
2	SAR	В	7	5/6	0.97	0.05	$9,\!10,\!13,\!17$	0
2	DAL	В	1	5/6	0.98	0.04	$9,\!10,\!12,\!12$	0
2	MLE	В	3	9/10	0.98	0.05	7, 7, 13, 19	0
2	ABA	В	6	6/7	0.99	0.04	$7,\!8,\!8,\!11$	0
2	BMT	В	5	13/14	0.99	0.04	$7,\!8,\!12,\!17$	0
2	MVA	В	4	8/9	0.99	0.05	6,7,7,8	0
2	MLE	В	8	9/10	0.99	0.07	$10,\!13,\!54,\!68$	0
2	MLE	В	2	9/10	0.99	0.04	$7,\!8,\!11,\!13$	0

## 6.3 Carbohydrates (i)

There are no carbohydrates 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	$\mathbf{RSR}$	$\mathbf{B} extsf{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	EDO	А	1184	3/4	0.89	0.12	$9,\!9,\!13,\!16$	0
4	MG	А	1186	1/1	0.97	0.04	19, 19, 19, 19, 19	1
5	CL	А	1187	1/1	0.99	0.05	14,14,14,14	0
4	MG	А	1185	1/1	1.00	0.03	$6,\!6,\!6,\!6$	1

#### 6.5 Other polymers (i)

There are no such residues in this entry.

