

wwPDB X-ray Structure Validation Summary Report (i)

Oct 4, 2023 – 04:04 AM EDT

PDB ID	:	6MTU
Title	:	Crystal structure of human Scribble PDZ1:pMCC complex
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Deposited on		
Resolution	:	2.14 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 (1)) were used in the production of this report:

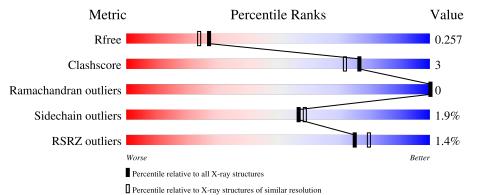
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 2.14 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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	2523 (2.16-2.12)
Clashscore	141614	2653 (2.16-2.12)
Ramachandran outliers	138981	2618 (2.16-2.12)
Sidechain outliers	138945	2617 (2.16-2.12)
RSRZ outliers	127900	2485 (2.16-2.12)

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	118	^{2%} 81%		6% 14%				
1	В	118	71%	10%	19%				
2	С	8	88%		12%				
2	D	8	12%		25%				



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2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 3425 atoms, of which 1691 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 Protein scribble homolog.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	А	102	Total 1521	C 468		N 141	0 148	$\frac{\mathrm{S}}{2}$	0	0	0
1	В	96	Total 1437		Н		0 140	2 2	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

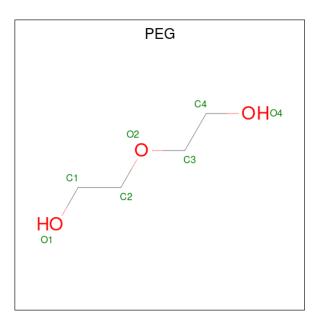
Chain	Residue	Modelled	Actual	Comment	Reference
А	699	GLY	-	expression tag	UNP Q14160
В	699	GLY	-	expression tag	UNP Q14160

• Molecule 2 is a protein called Colorectal mutant cancer protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
0	2 C	8	Total	С	Η	Ν	0	Р	0	0	0
			122	37	55	11	18	1	0		
9	2 D	8	Total	С	Η	Ν	Ο	Р	0	0	0
2		0	122	37	55	11	18	1			0

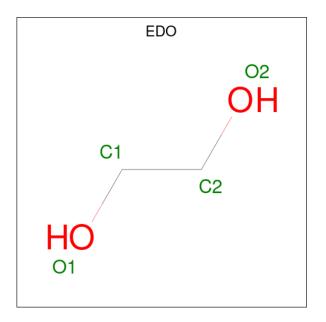
• Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).





Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	А	1	Total C H 17 4 10	O 3	0	0
3	А	1	Total C H 17 4 10	O 3	0	0
3	В	1	Total C H 17 4 10	O 3	0	0
3	В	1	Total C H 17 4 10	O 3	0	0

• Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).

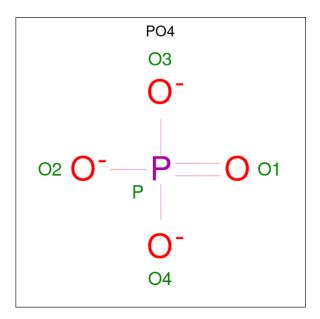




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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	А	1	Total C H O 10 2 6 2	0	0
4	В	1	Total C H O 10 2 6 2	0	0
4	В	1	Total C H O 10 2 6 2	0	0

• Molecule 5 is PHOSPHATE ION (three-letter code: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{P} \\ 5 & 4 & 1 \end{array}$	0	0
5	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{P} \\ 5 & 4 & 1 \end{array}$	0	0



• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	28	TotalO2828	0	0
7	В	13	Total O 13 13	0	0
7	С	2	Total O 2 2	0	0
7	D	1	Total O 1 1	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:	81%	6%	14%
GLY SER PRO FRO SER VAL VAL VAL VAL VAL VAL VAL SER PHE PHE PHE PHE CLY ASN ASN ASN ASN CLA ASN ASN ASN ASN ASN ASN ASN ASN ASN AS	L732 R762 L800 A803 A806 R815 M316		
• Molecule 1: Protein scribble	homolog		
Chain B:	71%	10%	19%
GLY SER ALA PRO PRO SER VAL VAL UVAL CLY SER ASN ASN ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	R7 33 GLN THR GLY GLY GLY GLY GLY F7 F7 F7 C F7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F6 E7 F7 F7 F7 F7 F7 F7 F7 F7 F7 F7 F7 F7 F7	E7 92 H7 94 E7 95 E7 95 E7 95	M816
• Molecule 2: Colorectal mutar	nt cancer protein		
Chain C:	88%		12%
P822 8828 1.829			
• Molecule 2: Colorectal mutar	nt cancer protein		
Chain D:	75%	2	5%
<mark>P 8 22</mark> 18 29 18 29			

• Molecule 1: Protein scribble homolog



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 41	Depositor
Cell constants	53.60Å 53.60 Å 214.45 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.88 - 2.14	Depositor
Resolution (A)	42.88 - 2.14	EDS
% Data completeness	53.2(42.88-2.14)	Depositor
(in resolution range)	53.2(42.88-2.14)	EDS
R _{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.04 (at 2.14 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.14_3260)	Depositor
R, R_{free}	0.197 , 0.255	Depositor
Λ, Λ_{free}	0.198 , 0.257	DCC
R_{free} test set	892 reflections $(10.12%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	42.2	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.43, 38.3	EDS
L-test for $twinning^2$	$< L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	0.479 for -h,k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3425	wwPDB-VP
Average B, all atoms $(Å^2)$	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.02% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities 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: SEP, PO4, EDO, PEG, CL

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	0.25	0/767	0.48	0/1032	
1	В	0.25	0/725	0.43	0/973	
2	С	0.27	0/57	0.41	0/74	
2	D	0.19	0/57	0.45	0/74	
All	All	0.25	0/1606	0.45	0/2153	

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	759	762	761	4	0
1	В	718	719	718	6	1
2	С	67	55	55	1	0
2	D	67	55	55	1	0
3	А	14	20	20	0	0
3	В	14	20	20	0	0
4	А	32	48	48	0	1
4	В	8	12	12	0	0
5	А	5	0	0	0	0

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	Continueu front prettous page								
Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes			
5	В	5	0	0	0	0			
6	А	1	0	0	0	0			
7	А	28	0	0	1	1			
7	В	13	0	0	0	1			
7	С	2	0	0	1	0			
7	D	1	0	0	0	0			
All	All	1734	1691	1689	10	2			

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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.

The worst 5 of 10 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:766:GLU:O	1:B:771:ARG:NH1	2.29	0.64
1:B:762:ARG:NH2	7:C:901:HOH:O	2.34	0.61
1:A:800:LEU:HD13	2:D:829:LEU:HD13	1.91	0.53
1:B:792:GLU:N	1:B:795:GLU:OE2	2.40	0.52
1:A:806:ALA:O	7:A:1001:HOH:O	2.20	0.49

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)
1:B:772:ALA:O	4:A:905:EDO:O2[3_545]	2.06	0.14
7:A:1019:HOH:O	7:B:1006:HOH:O[6_645]	2.15	0.05

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	Percer	ntiles
1	А	100/118~(85%)	95~(95%)	5 (5%)	0	100	100
1	В	92/118~(78%)	91 (99%)	1 (1%)	0	100	100
2	С	5/8~(62%)	5 (100%)	0	0	100	100
2	D	5/8~(62%)	5 (100%)	0	0	100	100
All	All	202/252~(80%)	196~(97%)	6 (3%)	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	75/88~(85%)	73~(97%)	2 (3%)	44 43
1	В	71/88~(81%)	70~(99%)	1 (1%)	67 70
2	С	7/7~(100%)	7 (100%)	0	100 100
2	D	7/7~(100%)	7 (100%)	0	100 100
All	All	160/190~(84%)	157~(98%)	3~(2%)	57 59

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	718	GLU
1	А	762	ARG
1	В	724	GLU

Sometimes 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)

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).

Mal	Mal Trung Chain B		Res Link		Bond lengths			В	ond ang	gles
Mol Type Cl	Chain	Chain Res	LINK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
2	SEP	С	828	2	8,9,10	1.55	1 (12%)	8,12,14	1.65	2 (25%)
2	SEP	D	828	2	8,9,10	1.54	1 (12%)	8,12,14	1.67	2 (25%)

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	SEP	С	828	2	-	1/5/8/10	-
2	SEP	D	828	2	-	4/5/8/10	-

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	С	828	SEP	P-O1P	3.38	1.61	1.50
2	D	828	SEP	P-O1P	3.36	1.61	1.50

All (2) bond length outliers are listed below:

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	С	828	SEP	P-OG-CB	-3.55	108.51	118.30
2	D	828	SEP	P-OG-CB	-3.20	109.49	118.30
2	D	828	SEP	OG-CB-CA	2.85	110.92	108.14
2	С	828	SEP	OG-CB-CA	2.52	110.60	108.14

There are no chirality outliers.

All (5) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	D	828	SEP	N-CA-CB-OG
2	D	828	SEP	CB-OG-P-O1P
2	D	828	SEP	CB-OG-P-O2P
2	D	828	SEP	CB-OG-P-O3P
2	С	828	SEP	N-CA-CB-OG

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	С	828	SEP	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 17 ligands modelled in this entry, 1 is monoatomic - leaving 16 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	Res	Link	B	ond leng	gths	B	ond ang	gles
	Type	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	EDO	В	903	-	3,3,3	0.46	0	2,2,2	0.30	0
3	PEG	А	903	-	6,6,6	0.49	0	$5,\!5,\!5$	0.45	0
3	PEG	А	901	-	6,6,6	0.49	0	$5,\!5,\!5$	0.31	0
4	EDO	А	906	-	3,3,3	0.45	0	2,2,2	0.28	0
4	EDO	А	910	-	3,3,3	0.46	0	$2,\!2,\!2$	0.30	0
4	EDO	А	912	-	3,3,3	0.46	0	2,2,2	0.18	0
4	EDO	В	902	-	3,3,3	0.46	0	2,2,2	0.34	0
4	EDO	А	908	-	3,3,3	0.47	0	$2,\!2,\!2$	0.28	0
4	EDO	А	907	-	3,3,3	0.46	0	2,2,2	0.38	0
4	EDO	А	905	-	3,3,3	0.47	0	2,2,2	0.22	0
4	EDO	А	902	-	3,3,3	0.46	0	2,2,2	0.34	0
4	EDO	А	909	-	3,3,3	0.46	0	2,2,2	0.30	0
5	PO4	А	904	-	4,4,4	0.91	0	$6,\!6,\!6$	0.44	0



Mol	Mol Type		Res	Link	B	Bond lengths			Bond angles		
IVIOI	туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
3	PEG	В	905	-	6,6,6	0.49	0	$5,\!5,\!5$	0.29	0	
3	PEG	В	904	-	6,6,6	0.49	0	$5,\!5,\!5$	0.29	0	
5	PO4	В	901	-	4,4,4	0.92	0	$6,\!6,\!6$	0.44	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
4	EDO	В	903	-	-	0/1/1/1	-
3	PEG	А	903	-	-	3/4/4/4	-
3	PEG	А	901	-	-	0/4/4/4	-
4	EDO	А	906	-	-	0/1/1/1	-
4	EDO	А	910	-	-	0/1/1/1	-
4	EDO	А	912	-	-	1/1/1/1	-
4	EDO	В	902	-	-	1/1/1/1	-
4	EDO	А	908	-	-	0/1/1/1	-
4	EDO	А	907	-	-	0/1/1/1	-
4	EDO	А	905	-	-	0/1/1/1	-
4	EDO	А	902	-	-	0/1/1/1	-
4	EDO	А	909	-	-	0/1/1/1	-
3	PEG	В	905	-	-	3/4/4/4	-
3	PEG	В	904	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	В	902	EDO	O1-C1-C2-O2
3	А	903	PEG	O2-C3-C4-O4
3	В	905	PEG	C4-C3-O2-C2
3	А	903	PEG	C4-C3-O2-C2
3	В	905	PEG	O2-C3-C4-O4

There are no ring outliers.

1 monomer is involved in 1 short contact:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	905	EDO	0	1

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	102/118~(86%)	0.22	2 (1%) 65 71	30, 46, 66, 68	0
1	В	96/118~(81%)	0.06	0 100 100	30, 44, 61, 67	0
2	С	7/8~(87%)	0.17	0 100 100	39, 42, 54, 70	0
2	D	7/8~(87%)	0.50	1 (14%) 2 3	38, 52, 62, 67	0
All	All	212/252~(84%)	0.16	3 (1%) 75 80	30, 45, 65, 70	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	803	ALA	2.5
1	А	732	LEU	2.1
2	D	822	PRO	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	$B-factors(Å^2)$	Q<0.9
2	SEP	С	828	10/11	0.95	0.11	$37,\!51,\!65,\!67$	0
2	SEP	D	828	10/11	0.95	0.10	37,51,63,69	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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
4	EDO	В	902	4/4	0.68	0.13	$57,\!68,\!79,\!79$	0
3	PEG	А	903	7/7	0.80	0.16	59,79,95,95	0
3	PEG	В	905	7/7	0.87	0.10	$50,\!65,\!78,\!84$	0
4	EDO	А	912	4/4	0.89	0.09	48,58,68,68	0
4	EDO	А	905	4/4	0.92	0.14	39,47,70,70	0
4	EDO	А	910	4/4	0.92	0.08	44,58,70,70	0
4	EDO	А	902	4/4	0.93	0.17	$27,\!35,\!61,\!73$	0
4	EDO	А	909	4/4	0.94	0.13	48,65,66,78	0
4	EDO	А	907	4/4	0.94	0.09	45,54,58,58	0
4	EDO	А	906	4/4	0.96	0.16	$28,\!39,\!51,\!51$	0
4	EDO	А	908	4/4	0.97	0.10	32,53,74,74	0
5	PO4	А	904	5/5	0.97	0.14	$38,\!51,\!60,\!62$	0
3	PEG	В	904	7/7	0.98	0.07	46,56,59,60	17
3	PEG	А	901	7/7	0.98	0.10	33,45,63,68	0
5	PO4	В	901	5/5	0.98	0.14	42,50,58,60	0
6	CL	А	911	1/1	0.98	0.13	49,49,49,49	0
4	EDO	В	903	4/4	0.99	0.10	30,53,70,70	0

6.5 Other polymers (i)

There are no such residues in this entry.

