

wwPDB X-ray Structure Validation Summary Report (i)

Nov 5, 2023 – 01:57 AM EST

PDB ID	:	6V13
Title	:	immune receptor complex
Authors	:	Lim, J.J.; Rossjohn, J.
Deposited on		
Resolution	:	2.75 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:

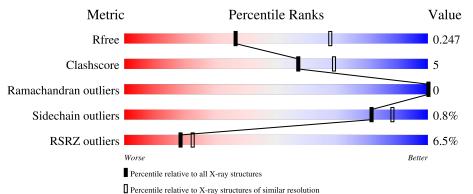
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, 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 2.75 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	1235 (2.78-2.74)
Clashscore	141614	1277 (2.78-2.74)
Ramachandran outliers	138981	1257 (2.78-2.74)
Sidechain outliers	138945	1257 (2.78-2.74)
RSRZ outliers	127900	1207 (2.78-2.74)

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	
			6%	
1	A	189	83%	11% • 6%
	_		15%	
2	В	198	76%	15% • 9%
3	С	13	92%	8%
			3%	
4	D	206	85%	13% •
			2%	
5	Ε	241	91%	9%



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
3	CIR	С	74	-	Х	-	-
6	NAG	А	201	-	-	-	Х
6	NAG	В	201	-	-	-	Х
7	GOL	В	202	-	-	-	Х



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 6640 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 HLA class II histocompatibility antigen, DR alpha chain.

Mo	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	178	Total 1447	C 940	N 234	O 268	${ m S}{ m 5}$	0	0	0

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ILE	-	expression tag	UNP P01903
А	2	LYS	-	expression tag	UNP P01903
A	3	GLU	-	expression tag	UNP P01903
А	4	GLU	-	expression tag	UNP P01903
А	182	THR	-	expression tag	UNP P01903
А	183	SER	-	expression tag	UNP P01903
А	184	GLY	-	expression tag	UNP P01903
А	185	ASP	-	expression tag	UNP P01903
А	186	ASP	-	expression tag	UNP P01903
А	187	ASP	-	expression tag	UNP P01903
А	188	ASP	-	expression tag	UNP P01903
A	189	LYS	-	expression tag	UNP P01903

There are 12 discrepancies between the modelled and reference sequences:

• Molecule 2 is a protein called HLA class II histocompatibility antigen, DRB1-4 beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	В	180	Total 1453	C 924	N 251	O 273	${ m S}{ m 5}$	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	191	THR	-	expression tag	UNP P13760
В	192	GLY	-	expression tag	UNP P13760
В	193	GLY	-	expression tag	UNP P13760
В	194	ASP	-	expression tag	UNP P13760

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Chain	Residue	Modelled	Actual	Comment	Reference
В	195	ASP	-	expression tag	UNP P13760
В	196	ASP	-	expression tag	UNP P13760
В	197	ASP	-	expression tag	UNP P13760
В	198	LYS	-	expression tag	UNP P13760

• Molecule 3 is a protein called Fibrinogen beta 74cit69-81.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	С	13	Total 90	C 55		O 16	0	0	0

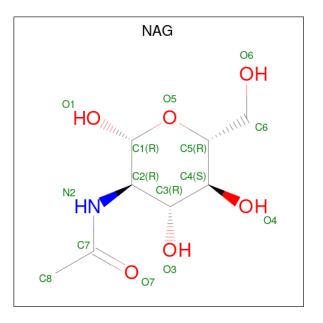
• Molecule 4 is a protein called G08 TCR alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	203	Total 1573	C 986	N 257	O 323	${ m S} 7$	0	0	0

• Molecule 5 is a protein called G08 TCR beta chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
5	Ε	241	Total 1934	C 1227	N 336	O 364	${ m S} 7$	0	0	0

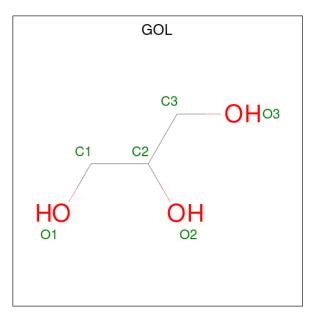
• Molecule 6 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	Total C N O 14 8 1 5	0	0
6	А	1	Total C N O 14 8 1 5	0	0
6	В	1	Total C N O 14 8 1 5	0	0

• Molecule 7 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

• Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	8	Total O 8 8	0	0
8	В	10	Total O 10 10	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	С	5	$\begin{array}{cc} \text{Total} & \text{O} \\ 5 & 5 \end{array}$	0	0
8	D	23	TotalO2323	0	0
8	Е	25	TotalO2525	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: 83% 11% • 6% ASP ASP ASP LYS • Molecule 2: HLA class II histocompatibility antigen, DRB1-4 beta chain Chain B: 76% 15% 9% THR GLN PRO LEU GLN HIS ARG ALA THR GLY GLY GLY ASP ASP ASP ASP • Molecule 3: Fibrinogen beta 74cit69-81 Chain C: 92% 8% • Molecule 4: G08 TCR alpha chain Chain D: 85% 13% • Molecule 5: G08 TCR beta chain Chain E: 91% 9%
- Molecule 1: HLA class II histocompatibility antigen, DR alpha chain





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	150.46Å 56.77 Å 136.25 Å	Depositor
a, b, c, α , β , γ	90.00° 92.42° 90.00°	Depositor
Resolution (Å)	45.38 - 2.75	Depositor
Resolution (A)	45.38 - 2.75	EDS
% Data completeness	99.9(45.38-2.75)	Depositor
(in resolution range)	99.9 (45.38 - 2.75)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.85 (at 2.77 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
B B.	0.210 , 0.247	Depositor
R, R_{free}	0.210 , 0.247	DCC
R_{free} test set	1528 reflections (5.04%)	wwPDB-VP
Wilson B-factor $(Å^2)$	50.2	Xtriage
Anisotropy	0.175	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36, 36.0	EDS
L-test for twinning ²	$< L > = 0.51, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.016 for -h,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6640	wwPDB-VP
Average B, all atoms $(Å^2)$	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.01% 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: NAG, CIR, 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).

Mol	Chain	Bond	lengths	Bond angles		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.46	0/1492	0.51	0/2038	
2	В	0.53	0/1493	0.61	4/2035~(0.2%)	
3	С	0.82	0/79	0.74	0/103	
4	D	0.60	0/1610	0.60	0/2191	
5	Е	0.61	0/1987	0.55	0/2706	
All	All	0.56	0/6661	0.57	4/9073~(0.0%)	

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	93	ARG	O-C-N	-8.09	109.76	122.70
2	В	93	ARG	C-N-CA	7.44	140.31	121.70
2	В	93	ARG	CA-C-N	5.50	129.29	117.20
2	В	33	HIS	N-CA-C	-5.09	97.27	111.00

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	1447	0	1371	17	0
2	В	1453	0	1336	16	0

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6V	13
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Mol	Chain	Non-H		H(added)	Clashes	Symm-Clashes
3	С	90	0	86	0	0
4	D	1573	0	1488	19	0
5	Ε	1934	0	1855	14	0
6	А	28	0	26	2	0
6	В	14	0	13	0	0
7	А	12	0	16	2	0
7	В	6	0	8	0	0
7	\mathbf{C}	6	0	8	0	0
7	D	6	0	8	1	0
8	А	8	0	0	1	0
8	В	10	0	0	0	0
8	\mathbf{C}	5	0	0	0	0
8	D	23	0	0	1	0
8	Ε	25	0	0	0	0
All	All	6640	0	6215	63	0

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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 5.

The worst 5 of 63 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:55:GLU:HG3	1:A:57:GLN:OE1	1.54	1.07
1:A:55:GLU:CG	1:A:57:GLN:OE1	2.23	0.87
7:A:204:GOL:O1	7:A:204:GOL:O3	2.01	0.74
1:A:28:GLY:HA2	7:A:204:GOL:H32	1.72	0.71
4:D:148:VAL:HG12	4:D:191:TRP:HB3	1.74	0.68

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	Outliers	Percentile	
1	А	176/189~(93%)	172 (98%)	4 (2%)	0	100	100
2	В	176/198~(89%)	168 (96%)	8 (4%)	0	100	100
3	С	10/13~(77%)	10 (100%)	0	0	100	100
4	D	201/206~(98%)	190 (94%)	11 (6%)	0	100	100
5	Ε	239/241~(99%)	235~(98%)	4 (2%)	0	100	100
All	All	802/847~(95%)	775 (97%)	27 (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	159/173~(92%)	157~(99%)	2(1%)	69 81		
2	В	154/177~(87%)	151~(98%)	3~(2%)	57 73		
3	С	5/5~(100%)	5 (100%)	0	100 100		
4	D	181/185~(98%)	180~(99%)	1 (1%)	86 90		
5	Ε	214/215~(100%)	214 (100%)	0	100 100		
All	All	713/755~(94%)	707~(99%)	6 (1%)	81 88		

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	В	35	GLU
2	В	96	TYR
4	D	83	TYR
1	А	162	ASP
1	А	153	PHE

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such side chains are listed below:



Mol	Chain	Res	Type
2	В	34	GLN
5	Е	22	ASN
5	Е	215	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	Chain	Dog	Link	Bond lengths			Bond angles		
WIOI	Type Chain Res L	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2		
3	CIR	С	74	3	9,10,11	2.36	4 (44%)	$6,\!11,\!13$	2.38	2 (33%)

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	CIR	С	74	3	-	6/8/9/11	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	С	74	CIR	C7-N6	-4.17	1.29	1.34
3	С	74	CIR	O7-C7	-3.82	1.18	1.24
3	С	74	CIR	C3-CA	-3.11	1.49	1.53
3	С	74	CIR	C5-N6	-2.29	1.40	1.46

All (2) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	С	74	CIR	O7-C7-N6	-4.39	118.48	121.74
3	С	74	CIR	N8-C7-N6	2.89	119.90	116.85

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	С	74	CIR	C4-C3-CA-C
3	С	74	CIR	O7-C7-N6-C5
3	С	74	CIR	N8-C7-N6-C5
3	С	74	CIR	C4-C3-CA-N
3	С	74	CIR	CA-C3-C4-C5

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)

8 ligands 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	Turne	Chain	Res	Link	Bo	ond leng	ths	Bond angles		
	Type	Unain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	NAG	A	202	1	$14,\!14,\!15$	0.27	0	17,19,21	0.46	0
7	GOL	D	301	-	$5,\!5,\!5$	0.41	0	$5,\!5,\!5$	0.32	0
7	GOL	С	300	-	$5,\!5,\!5$	0.41	0	$5,\!5,\!5$	0.58	0
6	NAG	А	201	1	14,14,15	0.30	0	17,19,21	0.45	0
7	GOL	В	202	-	$5,\!5,\!5$	0.36	0	$5,\!5,\!5$	0.46	0
6	NAG	В	201	2	$14,\!14,\!15$	0.68	1 (7%)	17,19,21	0.51	0
7	GOL	А	203	-	$5,\!5,\!5$	0.42	0	$5,\!5,\!5$	0.47	0
7	GOL	А	204	-	$5,\!5,\!5$	0.47	0	$5,\!5,\!5$	1.00	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
6	NAG	А	202	1	-	1/6/23/26	0/1/1/1
7	GOL	D	301	-	-	2/4/4/4	-
7	GOL	С	300	-	-	4/4/4/4	-
6	NAG	А	201	1	-	2/6/23/26	0/1/1/1
7	GOL	В	202	-	-	0/4/4/4	-
6	NAG	В	201	2	-	1/6/23/26	0/1/1/1
7	GOL	А	203	-	-	2/4/4/4	-
7	GOL	А	204	-	-	1/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	В	201	NAG	C1-C2	2.32	1.55	1.52

There are no bond angle outliers.

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	С	300	GOL	O1-C1-C2-C3
7	D	301	GOL	O1-C1-C2-O2
7	D	301	GOL	O1-C1-C2-C3
6	А	201	NAG	O5-C5-C6-O6
6	А	201	NAG	C4-C5-C6-O6

There are no ring outliers.

4 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	А	202	NAG	1	0
7	D	301	GOL	1	0
6	А	201	NAG	1	0
7	А	204	GOL	2	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	$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q < 0.9
1	А	178/189~(94%)	0.46	11 (6%) 20 25	35, 54, 75, 84	0
2	В	180/198~(90%)	0.72	29 (16%) 1 1	34, 53, 114, 130	0
3	С	12/13~(92%)	0.35	0 100 100	35, 41, 51, 54	0
4	D	203/206~(98%)	0.20	7 (3%) 45 53	28, 40, 66, 97	0
5	Е	241/241 (100%)	0.19	6 (2%) 57 66	26, 39, 62, 79	0
All	All	814/847~(96%)	0.37	53 (6%) 18 22	26, 45, 82, 130	0

The worst 5 of 53 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	142	VAL	5.0
2	В	165	PRO	4.8
2	В	161	LEU	4.6
2	В	167	SER	4.5
2	В	160	MET	4.4

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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
3	CIR	С	74	11/12	0.94	0.20	32,32,46,46	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 ²)	Q<0.9
7	GOL	В	202	6/6	0.71	0.43	76,80,84,87	0
6	NAG	А	201	14/15	0.73	0.45	77,81,88,96	0
6	NAG	В	201	14/15	0.76	0.44	70,78,83,87	0
7	GOL	А	203	6/6	0.82	0.30	59,66,70,81	0
7	GOL	С	300	6/6	0.86	0.23	40,51,58,61	0
7	GOL	D	301	6/6	0.88	0.46	49,62,69,71	0
7	GOL	А	204	6/6	0.91	0.20	48,49,52,60	0
6	NAG	А	202	14/15	0.91	0.31	57,68,83,95	0

6.5 Other polymers (i)

There are no such residues in this entry.

