

Full wwPDB X-ray Structure Validation Report (i)

Nov 7, 2023 – 01:03 pm GMT

PDB ID : 6XXR

Title: ENAH EVH1 in complex with Ac-[2-Cl-F]-PPPPTEDEA-NH2

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Deposited on : 2020-01-28

Resolution : 1.48 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 : 1.8.4, 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)

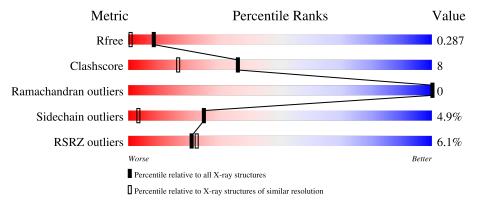
 $\begin{tabular}{lll} Validation Pipeline (wwPDB-VP) & : & 2.36 \end{tabular}$

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 1.48 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	Similar resolution $(\# \text{Entries, resolution range}(\text{\AA}))$
R_{free}	130704	4690 (1.50-1.46)
Clashscore	141614	4955 (1.50-1.46)
Ramachandran outliers	138981	4846 (1.50-1.46)
Sidechain outliers	138945	4844 (1.50-1.46)
RSRZ outliers	127900	4614 (1.50-1.46)

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	113	4%	73%	24%		
1	В	113	7%	19% • •			
2	F	7	29%	43%	29%		
2	G	7	29%	29%	43%		

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
2	2TL	F	7	X	-	-	-
2	2TL	G	7	X	-	-	-



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 3702 atoms, of which 1777 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 enabled homolog.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
1	A	112	Total 1758	C 558	H 866	N 167	O 159	S 8	0	4	0
1	В	108	Total 1673		H 819	N 159	O 153	S 6	2	4	0

There are 4 discrepancies between the modelled and reference sequences:

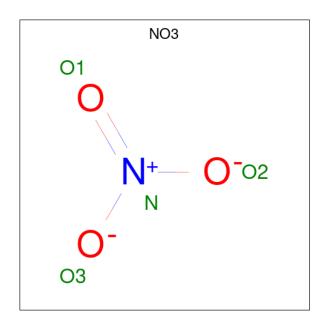
Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP Q8N8S7
A	0	SER	-	expression tag	UNP Q8N8S7
В	-1	GLY	-	expression tag	UNP Q8N8S7
В	0	SER	-	expression tag	UNP Q8N8S7

• Molecule 2 is a protein called Ac-[2-Cl-F]-PPPTEDEA-NH2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
2	E	7	7 Total		Cl	Н	N	О	0	0	0
	Г	1	95	35	1	46	6	7	U	U	0
2	С	7	Total	С	Cl	Н	N	О	0	0	0
	G	1	96	35	1	46	6	8	U	U	U

• Molecule 3 is NITRATE ION (three-letter code: NO3) (formula: NO₃).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total N O 8 2 6	0	1
3	A	1	Total N O 4 1 3	0	0
3	A	1	Total N O 4 1 3	0	0
3	В	1	Total N O 4 1 3	0	0
3	В	1	Total N O 8 2 6	0	1

• Molecule 4 is water.

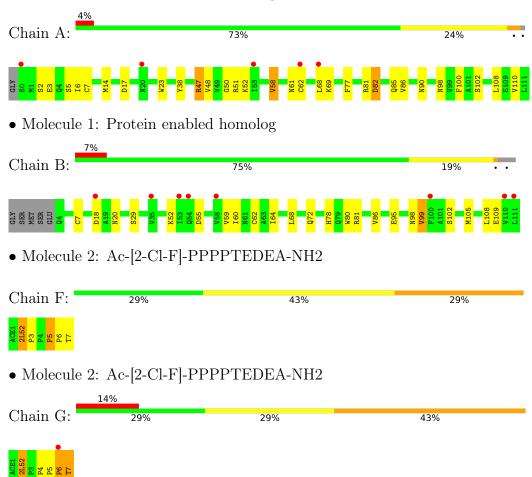
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	25	Total O 25 25	0	0
4	В	25	Total O 25 25	0	0
4	G	2	Total O 2 2	0	0



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: Protein enabled homolog





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	34.74Å 43.19Å 44.01Å	Denogitor
a, b, c, α , β , γ	61.04° 84.20° 84.21°	Depositor
Resolution (Å)	38.44 - 1.48	Depositor
rtesolution (A)	38.44 - 1.48	EDS
% Data completeness	95.9 (38.44-1.48)	Depositor
(in resolution range)	90.1 (38.44-1.48)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.03 (at 1.48Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
D D.	0.246 , 0.269	Depositor
R, R_{free}	0.255 , 0.287	DCC
R_{free} test set	1777 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	19.2	Xtriage
Anisotropy	0.187	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.41, 31.5	EDS
L-test for twinning ²	$< L >=0.45, < L^2>=0.28$	Xtriage
Estimated twinning fraction	0.229 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3702	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.34% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: 2L5, 2TL, ACE, NO3

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	1.12	6/924~(0.6%)	0.98	4/1247 (0.3%)	
1	В	1.15	$2/885 \ (0.2\%)$	0.94	2/1197 (0.2%)	
2	F	1.90	1/31 (3.2%)	2.15	2/44 (4.5%)	
2	G	1.81	0/31	1.55	0/44	
All	All	1.16	9/1871 (0.5%)	1.01	8/2532 (0.3%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a maintenain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	F	1	0
2	G	1	0
All	All	2	0

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\textup{\AA})$	Ideal(A)
1	В	7	CYS	CB-SG	-12.46	1.61	1.82
1	A	86	VAL	CB-CG2	-6.76	1.38	1.52
2	F	3	PRO	CA-CB	-5.92	1.41	1.53
1	A	23	TRP	CE3-CZ3	-5.90	1.28	1.38
1	A	58	VAL	CB-CG2	-5.76	1.40	1.52
1	В	99	VAL	CB-CG2	-5.62	1.41	1.52
1	A	62[A]	CYS	CB-SG	-5.56	1.72	1.81
1	A	62[B]	CYS	CB-SG	-5.56	1.72	1.81
1	A	100	PHE	CD2-CE2	-5.19	1.28	1.39

All (8) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	51	ARG	NE-CZ-NH1	9.47	125.03	120.30
2	F	3	PRO	CA-N-CD	-7.20	101.42	111.50
1	В	18	ASP	CB-CG-OD2	6.59	124.23	118.30
2	F	5	PRO	CA-N-CD	-5.90	103.24	111.50
1	A	82	ASP	CB-CG-OD1	5.82	123.54	118.30
1	В	55	ASP	CB-CG-OD2	5.81	123.53	118.30
1	A	17	ASP	CB-CG-OD1	5.38	123.14	118.30
1	A	51	ARG	NE-CZ-NH2	-5.14	117.73	120.30

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	F	7	2TL	CA
2	G	7	2TL	CA

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	892	866	850	16	0
1	В	854	819	805	13	0
2	F	49	46	41	1	0
2	G	50	46	41	4	0
3	A	16	0	0	0	0
3	В	12	0	0	0	0
4	A	25	0	0	1	0
4	В	25	0	0	2	0
4	G	2	0	0	0	0
All	All	1925	1777	1737	29	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 8.

All (29) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



A	A. 0	Interatomic	Clash	
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap (Å)	
1:A:81:ARG:HD2	1:B:81:ARG:HD2	1.77	0.66	
1:A:82:ASP:OD1	1:A:85:GLN:N	2.29	0.63	
1:A:69:LYS:HE2	2:G:2:2L5:H3	1.82	0.61	
1:B:52:LYS:HG3	4:B:302:HOH:O	2.04	0.56	
1:B:64:ILE:HG23	1:B:68:LEU:HD22	1.91	0.53	
1:B:105:MET:O	1:B:109:GLU:HG3	2.09	0.53	
1:B:72:GLN:HA	1:B:78:HIS:CD2	2.44	0.53	
1:B:29:SER:HB2	4:B:306:HOH:O	2.13	0.49	
1:B:68:LEU:HB3	1:B:108:LEU:HD21	1.95	0.48	
1:A:110:VAL:HG12	1:A:110:VAL:O	2.12	0.48	
1:B:68:LEU:HD11	1:B:80:TRP:HB2	1.95	0.48	
1:B:98:ASN:O	1:B:102:SER:HB3	2.14	0.48	
1:A:52:LYS:NZ	4:A:302:HOH:O	2.43	0.47	
1:B:52:LYS:HD3	1:B:59:VAL:HG11	1.99	0.45	
1:A:5:SER:HB2	1:A:38:TYR:CE1	2.52	0.45	
1:A:68:LEU:HB3	1:A:108:LEU:HD21	1.99	0.45	
1:B:60:ILE:HG13	1:B:62[A]:CYS:SG	2.58	0.44	
1:A:98:ASN:O	1:A:102:SER:HB3	2.17	0.44	
1:A:52:LYS:HB3	1:A:52:LYS:HE2	1.81	0.44	
1:A:48:VAL:O	1:A:61:ASN:HA	2.19	0.43	
1:B:95:GLU:O	1:B:99:VAL:HG23	2.19	0.43	
1:A:3:GLU:OE1	1:A:47:ARG:HD3	2.17	0.43	
1:A:77:PHE:CZ	2:G:6:PRO:HD3	2.54	0.42	
2:G:7:2TL:O	2:G:7:2TL:HG23	2.20	0.42	
1:A:6:ILE:O	1:A:7:CYS:HB3	2.21	0.41	
1:A:14[A]:MET:SD	2:G:6:PRO:HG2	2.60	0.41	
1:A:50:GLY:O	1:A:58:VAL:HA	2.21	0.41	
1:B:86:VAL:HG13	2:F:2:2L5:CL	2.58	0.41	
1:A:110:VAL:O	1:A:110:VAL:CG1	2.68	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	Outliers	Percentiles	
1	A	114/113 (101%)	111 (97%)	3 (3%)	0	100	100
1	В	$110/113 \ (97\%)$	108 (98%)	2 (2%)	0	100	100
2	F	4/7 (57%)	4 (100%)	0	0	100	100
2	G	4/7 (57%)	4 (100%)	0	0	100	100
All	All	232/240 (97%)	227 (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	A	93/92 (101%)	90 (97%)	3 (3%)	39 10		
1	В	87/92~(95%)	86 (99%)	1 (1%)	73 50		
2	F	4/4 (100%)	2 (50%)	2 (50%)	0 0		
2	G	4/4 (100%)	1 (25%)	3 (75%)	0 0		
All	All	188/192 (98%)	179 (95%)	9 (5%)	25 3		

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	SER
1	A	47	ARG
1	A	90	ASN
1	В	20	ASN
2	F	5	PRO
2	F	6	PRO
2	G	4	PRO
2	G	5	PRO
2	G	6	PRO

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



Mol	Chain	Res	Type
1	A	90	ASN
1	A	98	ASN
1	В	72	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	Trino	Chain	Res	Link	Во	Bond lengths			Bond angles		
MIOI	Mol Type Chain		nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	2L5	F	2	2	11,12,13	1.69	3 (27%)	11,15,17	1.04	1 (9%)	
2	2L5	G	2	2	11,12,13	2.17	3 (27%)	11,15,17	1.72	4 (36%)	
2	2TL	G	7	2	5,6,7	0.62	0	6,7,9	1.24	1 (16%)	
2	2TL	F	7	2	4,5,7	0.39	0	2,6,9	2.18	1 (50%)	

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	2L5	F	2	2	-	0/5/6/8	0/1/1/1
2	2L5	G	2	2	-	0/5/6/8	0/1/1/1
2	2TL	G	7	2	1/1/2/3	1/5/6/8	-
2	2TL	F	7	2	1/1/2/3	0/4/4/8	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	${f Atoms}$	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$[Ideal(ilde{ extbf{A}})]$
2	G	2	2L5	C15-CL	5.26	1.86	1.73

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	F	2	2L5	C15-C14	3.33	1.44	1.39
2	G	2	2L5	C13-C14	3.23	1.55	1.51
2	F	2	2L5	C13-C14	3.00	1.55	1.51
2	G	2	2L5	C13-CA	-2.78	1.47	1.53
2	F	2	2L5	C15-CL	2.38	1.79	1.73

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	F	7	2TL	C-CA-CB	-2.60	110.29	113.69
2	G	2	2L5	C14-C15-CL	2.54	123.85	119.73
2	G	2	2L5	C13-C14-C16	-2.49	115.08	119.71
2	G	2	2L5	C14-C13-CA	-2.32	110.93	114.53
2	G	2	2L5	C19-C15-C14	-2.28	118.53	122.20
2	G	7	2TL	CB-CA-C	-2.23	108.22	111.77
2	F	2	2L5	C14-C13-CA	-2.09	111.29	114.53

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	F	7	2TL	CA
2	G	7	2TL	CA

All (1) torsion outliers are listed below:

M	[ol	Chain	Res	Type	Atoms
6	2	G	7	2TL	C-CA-CB-CG2

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	2	2L5	1	0
2	G	2	2L5	1	0
2	G	7	2TL	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.



5.6 Ligand geometry (i)

7 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	Mol Type Ch		Res	Link	Bond lengths			Bond angles		
MIOI	Type Chain R	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	NO3	В	202[B]	-	1,3,3	0.47	0	0,3,3	-	-
3	NO3	A	202	-	1,3,3	0.67	0	0,3,3	-	-
3	NO3	A	201[A]	-	1,3,3	0.79	0	0,3,3	_	-
3	NO3	A	201[B]	-	1,3,3	0.90	0	0,3,3	_	-
3	NO3	В	201	-	1,3,3	0.46	0	0,3,3	_	-
3	NO3	В	202[A]	-	1,3,3	0.08	0	0,3,3	-	-
3	NO3	A	203	_	1,3,3	0.08	0	0,3,3	-	-

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>	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	112/113 (99%)	0.71	5 (4%) 33 36	17, 24, 38, 55	0
1	В	108/113 (95%)	0.82	8 (7%) 14 15	17, 25, 38, 46	1 (0%)
2	F	4/7 (57%)	1.12	0 100 100	25, 28, 36, 37	0
2	G	4/7 (57%)	1.87	1 (25%) 0 0	30, 33, 38, 54	0
All	All	228/240 (95%)	0.79	14 (6%) 21 22	17, 24, 38, 55	1 (0%)

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	G	6	PRO	3.8
1	В	18	ASP	2.6
1	A	20	ASN	2.6
1	В	54	GLN	2.5
1	В	35	VAL	2.4
1	В	53	ILE	2.3
1	A	62[A]	CYS	2.2
1	A	68	LEU	2.2
1	В	100	PHE	2.1
1	A	53	ILE	2.1
1	В	111	LEU	2.1
1	A	0	SER	2.0
1	В	58	VAL	2.0
1	В	110	VAL	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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	2TL	F	7	6/8	0.67	0.23	50,68,93,93	0
2	2TL	G	7	7/8	0.84	0.13	52,66,79,79	0
2	2L5	F	2	12/13	0.88	0.13	15,22,27,29	0
2	2L5	G	2	12/13	0.88	0.14	22,33,52,59	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
3	NO3	A	202	4/4	0.85	0.13	28,28,28,28	0
3	NO3	A	203	4/4	0.86	0.18	25,25,25,26	0
3	NO3	В	201	4/4	0.91	0.12	17,18,19,19	0
3	NO3	A	201[B]	4/4	0.94	0.14	1,2,3,4	4
3	NO3	A	201[A]	4/4	0.94	0.14	2,2,3,3	4
3	NO3	В	202[A]	4/4	0.96	0.09	18,18,18,19	4
3	NO3	В	202[B]	4/4	0.96	0.09	18,18,19,19	4

6.5 Other polymers (i)

There are no such residues in this entry.

