

Full wwPDB X-ray Structure Validation Report (i)

Aug 27, 2023 – 12:42 PM EDT

PDB ID	:	3H5F
Title	:	Switching the Chirality of the Metal Environment Alters the Coordination
		Mode in Designed Peptides.
Authors	:	Peacock, A.F.A.; Stuckey, J.A.; Pecoraro, V.L.
Deposited on		
Resolution	:	1.86 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:

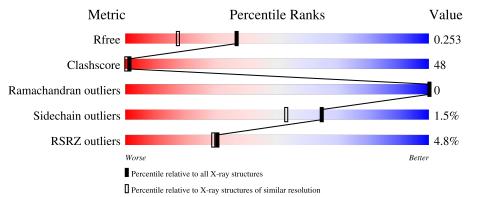
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 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 1.86 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	2469(1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592(1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

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	31	6% 71%	29%			
1	В	31	6%	29%	6%		
1	С	31	55%	45%			

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
4	ACT	С	34	-	-	Х	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 822 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.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	31	Total	С	Ν	Ο	\mathbf{S}	0	3	1
	Л	51	254	166	40	46	2	0		T
1	В	31	Total	С	Ν	Ο	S	0	9	1
	D	51	243	156	39	46	2	0	2	T
1	С	31	Total	С	Ν	Ο	S	0	9	1
		51	244	155	39	48	2	0	Δ	L

• Molecule 1 is a protein called COIL SER L16L-Pen.

• Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

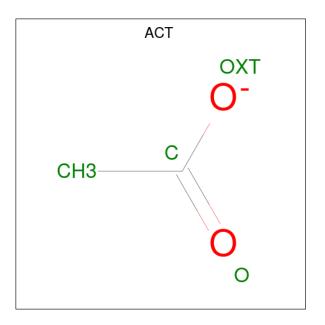
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Cl 1 1	0	0
2	В	1	Total Cl 1 1	0	0
2	С	1	Total Cl 1 1	0	0

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total Zn 2 2	0	0
3	С	2	Total Zn 2 2	0	0

• Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	С	1	Total 4	$\begin{array}{c} \mathrm{C} \\ \mathrm{2} \end{array}$	O 2	0	0

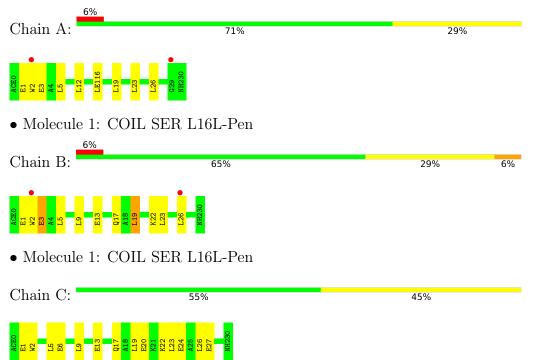
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	21	Total O 21 21	0	0
5	В	21	Total O 21 21	0	0
5	С	28	TotalO2828	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: COIL SER L16L-Pen



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	77.83Å 29.24Å 44.46Å	Depositor
a, b, c, α , β , γ	90.00° 118.80° 90.00°	Depositor
Resolution (Å)	24.40 - 1.86	Depositor
Resolution (A)	24.39 - 1.86	EDS
% Data completeness	98.3 (24.40-1.86)	Depositor
(in resolution range)	98.2 (24.39-1.86)	EDS
R _{merge}	0.06	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$7.70 (at 1.85 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
D D.	0.199 , 0.255	Depositor
R, R_{free}	0.203 , 0.253	DCC
R_{free} test set	344 reflections $(4.61%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	28.1	Xtriage
Anisotropy	0.118	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.41 , 86.9	EDS
L-test for twinning ²	$ < L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	822	wwPDB-VP
Average B, all atoms $(Å^2)$	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 16.10% 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: CL, LE1, ACE, ZN, ACT, NH2

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		Bon	d lengths	Bond angles		
10101	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.88	0/250	0.73	0/333	
1	В	1.09	2/234~(0.9%)	0.82	1/310~(0.3%)	
1	С	0.99	0/235	0.84	0/311	
All	All	0.99	2/719~(0.3%)	0.79	1/954~(0.1%)	

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(A)	Ideal(Å)
1	В	3	GLU	CB-CG	6.65	1.64	1.52
1	В	3	GLU	CG-CD	6.21	1.61	1.51

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	В	3	GLU	OE1-CD-OE2	-6.54	115.45	123.30

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	254	0	263	32	0
1	В	243	0	253	48	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	244	0	248	37	0
2	А	1	0	0	1	0
2	В	1	0	0	1	0
2	С	1	0	0	0	0
3	А	2	0	0	0	0
3	С	2	0	0	0	0
4	С	4	0	3	5	0
5	А	21	0	0	0	1
5	В	21	0	0	3	0
5	С	28	0	0	2	1
All	All	822	0	767	73	1

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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 48.

All (73) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + 1	A + 0	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:A:2[A]:TRP:CH2	1:C:5:LEU:HD22	1.64	1.31
1:A:26:LEU:CD1	1:B:23:LEU:HD11	1.66	1.26
1:A:26:LEU:HD12	1:B:23:LEU:HD11	1.12	1.12
1:B:26[A]:LEU:HD11	1:C:27:GLU:CG	1.81	1.09
1:A:26:LEU:HD12	1:B:23:LEU:CD1	1.88	1.04
1:A:26:LEU:CD1	1:B:23:LEU:CD1	2.37	1.02
1:B:26[A]:LEU:HD11	1:C:27:GLU:HG3	1.41	0.98
1:A:2[A]:TRP:CZ2	1:C:5:LEU:HD22	2.05	0.91
1:C:24:GLU:OE1	5:C:71:HOH:O	1.91	0.87
1:B:26[A]:LEU:CD1	1:C:27:GLU:HG3	2.05	0.85
1:C:22:LYS:O	1:C:26:LEU:CD1	2.27	0.82
1:C:22:LYS:O	1:C:26:LEU:HD13	1.83	0.79
1:A:26:LEU:HD11	1:B:23:LEU:HD11	1.65	0.78
1:B:26[A]:LEU:HD21	1:C:27:GLU:HG2	1.64	0.78
1:B:26[A]:LEU:HD12	1:C:23:LEU:HD11	1.64	0.77
1:B:26[A]:LEU:CD1	1:C:27:GLU:CG	2.61	0.75
1:B:1:GLU:OE2	5:B:44:HOH:O	2.06	0.72
1:A:2[A]:TRP:CH2	1:C:5:LEU:CD2	2.59	0.70
1:B:5:LEU:HD12	1:C:9:LEU:CD2	2.24	0.68
1:B:26[A]:LEU:HD11	1:C:27:GLU:HG2	1.73	0.67
1:B:5:LEU:HD22	1:C:2:TRP:CZ2	2.30	0.67
1:B:19:LEU:CD1	4:C:34:ACT:H1	2.25	0.66
1:A:23:LEU:HD12	1:B:23:LEU:HD22	1.78 Constinue	0.66

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Continued from previo		Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:C:1:GLU:O	1:C:5:LEU:CD1	2.44	0.65
1:A:12:LEU:HD12	1:B:9:LEU:HD11	1.78	0.65
1:C:22:LYS:O	1:C:26:LEU:HD12	1.97	0.64
1:A:23:LEU:HD22	1:C:19:LEU:HD22	1.80	0.63
1:C:1:GLU:O	1:C:5:LEU:HD13	1.99	0.62
1:A:23:LEU:HD12	1:B:23:LEU:CD2	2.29	0.62
1:B:19:LEU:HD11	1:C:20[A]:GLU:HG2	1.82	0.62
1:A:23:LEU:CD1	1:B:23:LEU:HD22	2.31	0.60
1:B:5:LEU:HD23	1:C:2:TRP:CH2	2.37	0.60
1:B:26[A]:LEU:CD2	1:C:27:GLU:HG2	2.32	0.60
1:B:3:GLU:OE1	2:B:31:CL:CL	2.59	0.57
1:B:5:LEU:CD2	1:C:2:TRP:CH2	2.88	0.56
1:B:5:LEU:CD1	1:C:9:LEU:HD22	2.35	0.56
1:A:12:LEU:HD12	1:B:9:LEU:CD1	2.36	0.55
1:C:13:GLU:O	1:C:17:GLN:HG2	2.08	0.54
1:B:5:LEU:HD12	1:C:9:LEU:HD22	1.89	0.54
1:A:12:LEU:CD1	1:B:9:LEU:CD1	2.87	0.52
1:C:1:GLU:O	1:C:5:LEU:HD12	2.09	0.52
1:A:1:GLU:HG2	1:B:2:TRP:CZ2	2.46	0.50
1:A:2[A]:TRP:HH2	1:C:5:LEU:HD22	1.60	0.50
1:B:26[A]:LEU:HD12	1:C:23:LEU:CD1	2.36	0.49
1:B:19:LEU:HD11	4:C:34:ACT:H1	1.93	0.49
1:B:13:GLU:O	1:B:17:GLN:HG3	2.13	0.49
1:B:19:LEU:HD12	4:C:34:ACT:H1	1.95	0.48
5:B:44:HOH:O	1:C:6:GLU:OE2	2.20	0.48
1:B:22:LYS:CD	4:C:34:ACT:H2	2.43	0.48
1:A:2[A]:TRP:CZ2	1:C:5:LEU:CD2	2.90	0.47
1:A:26:LEU:HD11	1:B:23:LEU:CD1	2.33	0.47
1:A:12:LEU:CD1	1:B:9:LEU:HD11	2.42	0.46
1:B:26[A]:LEU:CD1	1:C:27:GLU:HG2	2.38	0.46
1:A:19[B]:LEU:HG	1:A:23:LEU:CD1	2.46	0.45
1:C:27:GLU:OE1	5:C:53:HOH:O	2.21	0.45
1:B:19:LEU:CD1	1:C:20[A]:GLU:HG2	2.46	0.44
1:A:19[B]:LEU:HD21	1:B:19:LEU:HB3	1.99	0.44
1:B:1:GLU:CD	5:B:44:HOH:O	2.54	0.44
1:B:19:LEU:HD12	1:B:19:LEU:HA	1.91	0.43
1:B:19:LEU:HD21	1:C:20[A]:GLU:HG3	2.01	0.43
1:B:26[A]:LEU:HD11	1:C:27:GLU:CD	2.37	0.42
1:A:19[B]:LEU:CD1	1:B:23:LEU:HD23	2.49	0.42
1:B:22:LYS:HD2	4:C:34:ACT:H2	2.02	0.42
1:A:26:LEU:CD1	1:B:23:LEU:HD12	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:GLU:OE1	2:A:31:CL:CL	2.75	0.41
1:A:5:LEU:C	1:A:5:LEU:HD23	2.40	0.41
1:A:2[A]:TRP:CZ3	1:A:5:LEU:HD22	2.56	0.41
1:B:5:LEU:HD11	1:C:9:LEU:HD22	2.02	0.40

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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-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:50:HOH:O	5:C:49:HOH:O[4_555]	2.10	0.10

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	30/31~(97%)	30 (100%)	0	0	100	100
1	В	29/31~(94%)	29 (100%)	0	0	100	100
1	С	29/31~(94%)	29 (100%)	0	0	100	100
All	All	88/93~(95%)	88 (100%)	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	Percentiles		
1	А	24/22~(109%)	24 (100%)	0	100 100		
1	В	23/22~(104%)	22~(96%)	1 (4%)	29 12		
1	С	23/22~(104%)	23~(100%)	0	100 100		
All	All	70/66~(106%)	69~(99%)	1 (1%)	65 55		

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type	
1	В	19	LEU	

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. There are no such side chains 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)

6 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	Type	e Chain Res		Link	B	ond leng	gths	B	ond ang	gles
	туре	Ullaili	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	LE1	В	16[A]	-	$3,\!7,\!8$	0.66	0	3,10,12	1.17	0
1	LE1	В	16[B]	-	3,7,8	0.66	0	3,10,12	1.14	0
1	LE1	А	16[B]	-	3,7,8	0.84	0	3,10,12	1.69	1 (33%)
1	LE1	А	16[A]	-	3,7,8	0.84	0	3,10,12	1.72	1 (33%)
1	LE1	С	16[B]	-	3,7,8	0.66	0	3,10,12	0.97	0
1	LE1	С	16[A]	-	3,7,8	0.66	0	3,10,12	1.01	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.



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	LE1	В	16[A]	-	-	0/4/8/10	-
1	LE1	В	16[B]	-	-	0/4/8/10	-
1	LE1	А	16[B]	-	-	0/4/8/10	-
1	LE1	А	16[A]	-	-	0/4/8/10	-
1	LE1	С	16[B]	-	-	0/4/8/10	-
1	LE1	С	16[A]	-	-	0/4/8/10	-

'-' means no outliers of that kind were identified.

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	16[A]	LE1	O-C-CA	-2.91	115.69	124.29
1	А	16[B]	LE1	O-C-CA	-2.91	115.69	124.29

There are no chirality outliers.

There are no torsion outliers.

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 8 ligands modelled in this entry, 7 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).

	Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
IVIOI	туре	Ullalli	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
	4	ACT	С	34	-	3,3,3	0.85	0	$3,\!3,\!3$	1.38	0



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.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	С	34	ACT	5	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	$OWAB(A^2)$	$\mathbf{Q} \! < \! 0.9$
1	А	28/31~(90%)	0.40	2 (7%) 16 15	21, 25, 28, 32	0
1	В	28/31~(90%)	0.29	2 (7%) 16 15	20, 26, 29, 30	0
1	С	28/31~(90%)	0.08	0 100 100	21, 24, 27, 29	0
All	All	84/93 (90%)	0.26	4 (4%) 30 29	20, 25, 29, 32	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	2[A]	TRP	3.5
1	В	2	TRP	3.0
1	В	26[A]	LEU	2.1
1	А	29	GLY	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	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
1	LE1	В	16[A]	8/9	0.88	0.11	24,26,27,36	0
1	LE1	В	16[B]	8/9	0.88	0.11	24,26,27,27	2
1	LE1	А	16[A]	8/9	0.90	0.12	18,21,22,27	0
1	LE1	А	16[B]	8/9	0.90	0.12	20,21,22,22	2
1	LE1	С	16[A]	8/9	0.95	0.08	19,21,22,31	0
1	LE1	С	16[B]	8/9	0.95	0.08	19,22,22,22	2



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
4	ACT	С	34	4/4	0.78	0.32	$57,\!57,\!57,\!57$	0
2	CL	С	31	1/1	0.85	0.08	57,57,57,57	0
3	ZN	С	33	1/1	0.96	0.04	64,64,64,64	0
2	CL	В	31	1/1	0.98	0.15	41,41,41,41	0
3	ZN	А	33	1/1	0.99	0.07	28,28,28,28	0
3	ZN	С	32	1/1	0.99	0.06	36,36,36,36	0
2	CL	А	31	1/1	0.99	0.15	42,42,42,42	1
3	ZN	А	32	1/1	0.99	0.12	30,30,30,30	0

6.5 Other polymers (i)

There are no such residues in this entry.

