

wwPDB X-ray Structure Validation Summary Report (i)

Nov 3, 2023 – 02:39 AM EDT

:	3VUA
:	Apo IsdH-NEAT3 in space group P3121 at a resolution of 1.85 A
:	Vu, N.T.; Caaveiro, J.M.M.; Moriwaki, Y.; Tsumoto, K.
	2012-06-26
:	1.85 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:

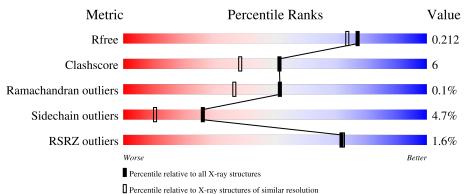
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, 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 1.85 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	126	84%	6% • 9%
1	В	126	^{2%} 75 %	12% • • 10%
1	С	126	.% 7 9%	10% • 10%
1	D	126	83%	• • 10%
1	Е	126	81%	9% 10%

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Mol	Chain	Length	Quality of chain			
			5%			
1	\mathbf{F}	126	79%	10%	•	10%

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	GOL	Ε	701	-	-	Х	-



2 Entry composition (i)

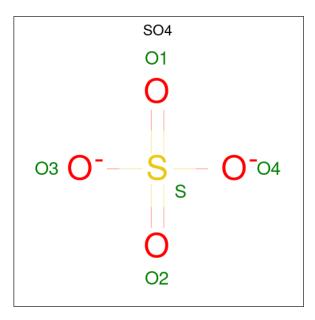
There are 5 unique types of molecules in this entry. The entry contains 6343 atoms, of which 0 are hydrogens and 0 are deuteriums.

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		At	oms			ZeroOcc	AltConf	Trace
1	А	115	Total	С	Ν	0	S	0	1	0
	Л	115	938	600	154	182	2	0	1	0
1	В	114	Total	С	Ν	Ο	\mathbf{S}	0	1	0
1	D	114	929	596	152	179	2	0	1	0
1	С	114	Total	С	Ν	Ο	\mathbf{S}	0	10	0
1	U	114	998	640	160	196	2	0	10	0
1	D	114	Total	С	Ν	Ο	\mathbf{S}	0	1	0
	D	114	931	596	152	181	2	0	1	U
1	Е	113	Total	С	Ν	Ο	\mathbf{S}	0	1	0
L	Ľ	115	923	592	151	178	2	0	1	0
1	F	113	Total	С	Ν	Ο	S	0	2	0
	Ľ	113	929	596	151	180	2			0

• Molecule 1 is a protein called Iron-regulated surface determinant protein H.

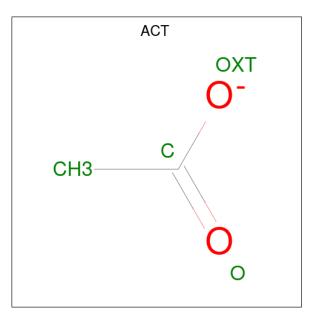
• Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O_4S).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	С	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	С	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	Ε	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	F	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

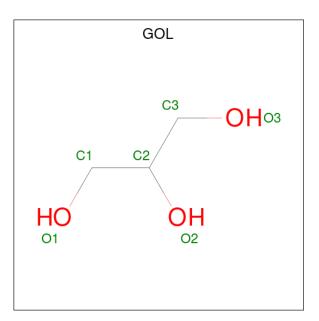
 $\bullet\,$ Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: C_2H_3O_2).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).





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

• Molecule 5 is water.

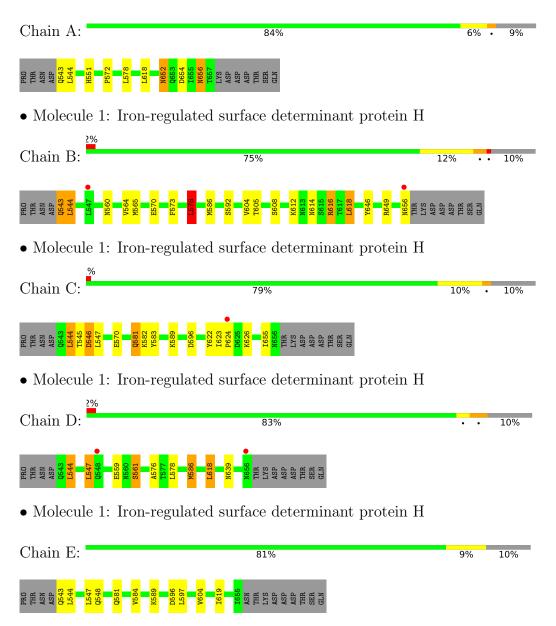
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	104	Total O 104 104	0	0
5	В	97	Total O 97 97	0	0
5	С	108	Total O 108 108	0	0
5	D	120	Total O 120 120	0	0
5	Е	108	Total O 110 110	0	2
5	F	82	TotalO8282	0	0



3 Residue-property plots (i)

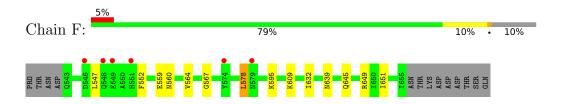
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Iron-regulated surface determinant protein H



• Molecule 1: Iron-regulated surface determinant protein H







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants	126.68Å 126.68Å 116.59Å	Deperitor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	36.63 - 1.85	Depositor
Resolution (A)	36.63 - 1.85	EDS
% Data completeness	99.7 (36.63 - 1.85)	Depositor
(in resolution range)	99.7 (36.63 - 1.85)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	0.08	Depositor
$< I/\sigma(I) > 1$	2.73 (at 1.85 Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.180 , 0.212	Depositor
n, nfree	0.181 , 0.212	DCC
R_{free} test set	4606 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	22.7	Xtriage
Anisotropy	0.034	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36 , 46.6	EDS
L-test for twinning ²	$< L > = 0.46, < L^2 > = 0.28$	Xtriage
Estimated twinning fraction	0.031 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6343	wwPDB-VP
Average B, all atoms $(Å^2)$	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 34.46 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 6.7983e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: GOL, SO4, ACT

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	0.89	0/961	0.90	0/1305	
1	В	0.80	0/952	0.85	2/1293~(0.2%)	
1	С	0.90	0/1029	0.89	2/1399~(0.1%)	
1	D	0.87	0/954	0.93	2/1295~(0.2%)	
1	Е	0.89	0/946	0.94	2/1284~(0.2%)	
1	F	0.85	0/955	0.82	1/1296~(0.1%)	
All	All	0.87	0/5797	0.89	9/7872~(0.1%)	

There are no bond length outliers.

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	Е	547	LEU	CA-CB-CG	-6.88	99.47	115.30
1	Е	596	ASP	CB-CG-OD2	5.61	123.35	118.30
1	В	578	LEU	CB-CG-CD2	5.42	120.20	111.00
1	В	544	LEU	CA-CB-CG	5.26	127.39	115.30
1	D	618	LEU	CB-CG-CD1	-5.19	102.18	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	938	0	920	7	0
1	В	929	0	914	12	0
1	С	998	0	975	26	0
1	D	931	0	911	6	0
1	Ε	923	0	907	7	0
1	F	929	0	913	8	0
2	А	10	0	0	0	0
2	С	10	0	0	1	0
2	Ε	5	0	0	1	0
2	F	5	0	0	0	0
3	А	4	0	3	0	0
3	С	4	0	3	0	0
4	В	6	0	8	2	0
4	С	18	0	24	1	0
4	D	6	0	8	0	0
4	Ε	6	0	8	5	0
5	А	104	0	0	1	0
5	В	97	0	0	1	0
5	С	108	0	0	2	0
5	D	120	0	0	0	0
5	Ε	110	0	0	0	0
5	F	82	0	0	1	0
All	All	6343	0	5594	63	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 6.

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:D:586:MET:HE3	1:D:618:LEU:HD11	1.27	1.14	
1:E:548[A]:GLN:HB3	4:E:701:GOL:H12	1.37	1.06	
1:E:548[B]:GLN:HB3	4:E:701:GOL:H12	1.55	0.86	
1:C:624[B]:PRO:HG2	5:F:829:HOH:O	1.74	0.85	
1:C:582:LYS:HD2	1:C:622[B]:TYR:CD2	2.12	0.83	

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	Perce	ntiles
1	А	114/126~(90%)	111 (97%)	3~(3%)	0	100	100
1	В	113/126~(90%)	110~(97%)	3~(3%)	0	100	100
1	С	122/126~(97%)	117~(96%)	3~(2%)	2(2%)	9	2
1	D	113/126~(90%)	112 (99%)	1 (1%)	0	100	100
1	Ε	112/126~(89%)	109~(97%)	3~(3%)	0	100	100
1	F	113/126~(90%)	109~(96%)	4 (4%)	0	100	100
All	All	687/756~(91%)	668~(97%)	17 (2%)	2 (0%)	51	26

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	546[A]	ASP
1	С	546[B]	ASP

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	106/116~(91%)	103~(97%)	3~(3%)	43 27
1	В	105/116~(90%)	95~(90%)	10 (10%)	8 1
1	С	114/116~(98%)	112 (98%)	2(2%)	59 45
1	D	105/116~(90%)	99~(94%)	6 (6%)	20 6
1	Е	104/116~(90%)	101 (97%)	3~(3%)	42 26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	F	105/116~(90%)	98~(93%)	7~(7%)	16 4
All	All	639/696~(92%)	608~(95%)	31~(5%)	26 9

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5 of 31 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	С	581[B]	GLN
1	F	578	LEU
1	D	561	SER
1	F	609	LYS
1	F	547	LEU

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 22 such side chains are listed below:

Mol	Chain	Res	Type
1	Ε	543	GLN
1	Ε	647	HIS
1	Е	630	ASN
1	F	560	ASN
1	В	613	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)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

14 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).

Mal	Trune	Chain	Dec	Link	B	ond leng	gths	B	ond ang	gles
Mol	Type	Chain	Res		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	SO4	А	701	-	4,4,4	0.50	0	$6,\!6,\!6$	0.20	0
2	SO4	А	702	-	4,4,4	0.57	0	$6,\!6,\!6$	0.58	0
2	SO4	С	705	-	4,4,4	0.43	0	$6,\!6,\!6$	0.25	0
2	SO4	F	701	-	4,4,4	0.52	0	$6,\!6,\!6$	0.37	0
2	SO4	Е	702	-	4,4,4	0.35	0	$6,\!6,\!6$	1.38	2 (33%)
4	GOL	В	701	-	$5,\!5,\!5$	0.40	0	$5,\!5,\!5$	0.82	0
4	GOL	С	701	-	$5,\!5,\!5$	0.65	0	$5,\!5,\!5$	1.24	0
4	GOL	D	701	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.82	0
2	SO4	С	704	-	4,4,4	0.40	0	$6,\!6,\!6$	0.95	0
3	ACT	А	703	-	3,3,3	1.00	0	3,3,3	0.96	0
4	GOL	С	702	-	$5,\!5,\!5$	0.32	0	$5,\!5,\!5$	0.75	0
3	ACT	С	706	-	3,3,3	0.94	0	3,3,3	1.15	0
4	GOL	Е	701	-	$5,\!5,\!5$	0.75	0	$5,\!5,\!5$	0.96	0
4	GOL	С	703	-	$5,\!5,\!5$	0.25	0	$5,\!5,\!5$	0.97	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	GOL	В	701	-	-	4/4/4/4	-
4	GOL	С	701	-	-	3/4/4/4	-
4	GOL	D	701	-	-	2/4/4/4	-
4	GOL	С	702	-	-	2/4/4/4	-
4	GOL	Е	701	-	-	2/4/4/4	-
4	GOL	С	703	-	-	2/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	Е	702	SO4	04-S-01	-2.35	97.06	109.31
2	Е	702	SO4	O4-S-O3	2.12	118.11	109.06



There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
4	В	701	GOL	O1-C1-C2-C3
4	С	702	GOL	C1-C2-C3-O3
4	D	701	GOL	O1-C1-C2-C3
4	Е	701	GOL	C1-C2-C3-O3
4	Е	701	GOL	O2-C2-C3-O3

5 of 15 torsion outliers are listed below:

There are no ring outliers.

5 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	Е	702	SO4	1	0
4	В	701	GOL	2	0
2	С	704	SO4	1	0
4	С	702	GOL	1	0
4	Е	701	GOL	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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(A^2)$	Q<0.9
1	А	115/126~(91%)	-0.21	0 100 100	15, 28, 53, 68	0
1	В	114/126~(90%)	-0.25	2 (1%) 68 68	22, 35, 57, 72	0
1	С	114/126~(90%)	-0.20	1 (0%) 84 84	15, 24, 46, 58	0
1	D	114/126~(90%)	-0.28	2 (1%) 68 68	18, 28, 48, 64	0
1	Ε	113/126~(89%)	-0.30	0 100 100	15, 25, 49, 64	0
1	F	113/126~(89%)	0.03	6 (5%) 26 25	21, 36, 60, 72	0
All	All	683/756~(90%)	-0.20	11 (1%) 72 72	15, 30, 54, 72	0

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	656	ASN	4.7
1	В	656	ASN	3.4
1	F	574	TYR	2.9
1	С	624[A]	PRO	2.9
1	В	547	LEU	2.5

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

There are no non-standard protein/DNA/RNA residues in this entry.

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	GOL	С	703	6/6	0.77	0.19	$50,\!55,\!66,\!69$	0
4	GOL	С	702	6/6	0.86	0.18	44,51,54,58	0
4	GOL	Е	701	6/6	0.87	0.16	30,41,42,45	0
3	ACT	А	703	4/4	0.89	0.10	42,46,48,48	0
2	SO4	С	705	5/5	0.89	0.25	89,90,98,99	0
3	ACT	С	706	4/4	0.93	0.16	$27,\!36,\!43,\!43$	0
4	GOL	В	701	6/6	0.93	0.11	42,46,49,49	0
4	GOL	С	701	6/6	0.93	0.14	32,35,40,44	0
2	SO4	F	701	5/5	0.94	0.23	44,47,55,58	0
2	SO4	А	701	5/5	0.94	0.19	48,54,62,71	0
4	GOL	D	701	6/6	0.95	0.09	37,38,42,43	0
2	SO4	С	704	5/5	0.99	0.08	$26,\!33,\!35,\!40$	0
2	SO4	А	702	5/5	0.99	0.07	24,31,35,40	0
2	SO4	Е	702	5/5	0.99	0.07	$25,\!26,\!35,\!37$	0

6.5 Other polymers (i)

There are no such residues in this entry.

