

Full wwPDB X-ray Structure Validation Report (i)

Jun 17, 2024 – 09:17 AM EDT

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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:

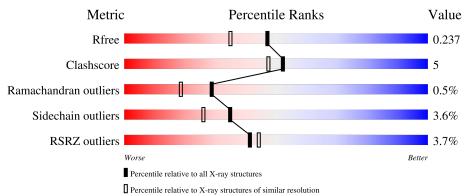
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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 1.89 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	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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	306	4%		90%	9% •	
1	В	306	4%		83%	15% •	
2	С	6	17%	17%	67%		
2	D	6	17%	17%	67%		



3SND

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5410 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.

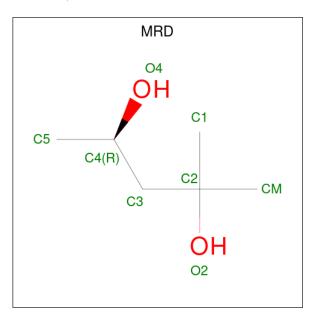
• Molecule 1 is a protein called 3C-like proteinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	306	Total 2379	C 1504	N 408	0 445	S 22	0	1	0
1	В	306	Total 2385	C 1508	N 408	0 446	S 23	0	3	0

• Molecule 2 is a protein called Peptide aldehyde inhibitor Ac-ESTLQ-H.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	С	2	Total C N O 17 11 3 3	0	0	0
2	D	2	Total C N O 17 11 3 3	0	0	0

• Molecule 3 is (4R)-2-METHYLPENTANE-2,4-DIOL (three-letter code: MRD) (formula: $C_6H_{14}O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	А	1	Total 8	C 6	O 2	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	308	Total O 308 308	0	0
4	В	295	Total O 295 295	0	0
4	С	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.



• Molecule 1: 3C-like proteinase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	52.37Å 96.79Å 68.07Å	Depositor
a, b, c, α , β , γ	90.00° 102.49° 90.00°	Depositor
Resolution (Å)	27.29 - 1.89	Depositor
Resolution (A)	27.29 - 1.89	EDS
% Data completeness	96.1 (27.29-1.89)	Depositor
(in resolution range)	96.1 (27.29-1.89)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.33 (at 1.89 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.0	Depositor
D D.	0.174 , 0.235	Depositor
R, R_{free}	0.177 , 0.237	DCC
R_{free} test set	2587 reflections $(5.08%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	19.7	Xtriage
Anisotropy	0.032	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 45.4	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5410	wwPDB-VP
Average B, all atoms $(Å^2)$	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.38% 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: MRD, ECC

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		
IVIOI	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	1.09	3/2435~(0.1%)	0.87	2/3306~(0.1%)	
1	В	1.08	5/2447~(0.2%)	0.90	2/3323~(0.1%)	
2	С	1.82	0/7	1.35	0/8	
2	D	1.29	0/7	0.98	0/8	
All	All	1.09	8/4896~(0.2%)	0.89	4/6645~(0.1%)	

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 mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	С	0	1
2	D	0	1
All	All	0	2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	В	55	GLU	CB-CG	5.54	1.62	1.52
1	В	240	GLU	CD-OE2	-5.46	1.19	1.25
1	В	240	GLU	CB-CG	-5.42	1.41	1.52
1	А	177	LEU	CG-CD2	-5.13	1.32	1.51
1	А	182	TYR	CD2-CE2	5.12	1.47	1.39
1	В	128	CYS	CB-SG	-5.02	1.73	1.81
1	В	290	GLU	CG-CD	5.02	1.59	1.51
1	А	218	TRP	CB-CG	5.01	1.59	1.50

All (4) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	177	LEU	CA-CB-CG	-7.97	96.97	115.30
1	А	177	LEU	CB-CG-CD2	-7.39	98.44	111.00
1	В	248	ASP	CB-CG-OD1	5.04	122.83	118.30
1	А	202	LEU	CB-CG-CD1	5.03	119.55	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	С	4	LEU	Mainchain
2	D	4	LEU	Mainchain

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	2379	0	2334	21	0
1	В	2385	0	2344	32	1
2	С	17	0	19	0	0
2	D	17	0	19	3	0
3	А	8	0	14	5	0
4	А	308	0	0	5	1
4	В	295	0	0	8	0
4	С	1	0	0	0	0
All	All	5410	0	4730	52	1

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.

All (52) 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:4:ARG:H	1:B:299:GLN:HE22	1.13	0.95
1:B:165:MET:HE2	2:D:4:LEU:HD23	1.50	0.94
1:B:165:MET:CE	2:D:4:LEU:HD23	2.04	0.87
1:A:4:ARG:H	1:A:299:GLN:HE22	1.22	0.83

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	us page	Interatomic	Clash	
Atom-1	Atom-2	distance (Å)	overlap (Å)	
1:B:186:VAL:H	1:B:192:GLN:HE22	1.29	0.79	
1:B:165:MET:HE1	1:B:187:ASP:HA	1.64	0.79	
1:A:103:PHE:CE1	1:A:177:LEU:HD23	2.20	0.74	
1:B:55:GLU:H	1:B:55:GLU:CD	1.93	0.71	
1:B:19:GLN:HE21	1:B:26:THR:HG21	1.58	0.69	
1:A:231:ASN:HD21	1:A:242:LEU:H	1.39	0.68	
1:A:47:GLU:O	1:A:49:MET:N	2.26	0.68	
1:A:108:PRO:O	3:A:307:MRD:H1C1	1.95	0.66	
1:B:4:ARG:H	1:B:299:GLN:NE2	1.92	0.64	
1:B:5:LYS:HD3	4:B:425:HOH:O	1.99	0.62	
1:B:67:LEU:HD11	1:B:74:GLN:OE1	2.03	0.59	
1:B:165:MET:CE	2:D:4:LEU:CD2	2.80	0.59	
1:B:295:ASP:OD1	1:B:298[A]:ARG:NH2	2.35	0.59	
1:B:22:CYS:SG	1:B:61:LYS:NZ	2.68	0.59	
1:B:138:GLY:H	1:B:172:HIS:HD2	1.50	0.59	
3:A:307:MRD:HMC1	4:A:534:HOH:O	2.02	0.58	
3:A:307:MRD:HMC3	4:A:322:HOH:O	2.05	0.56	
1:A:186:VAL:H	1:A:192:GLN:HE22	1.51	0.56	
1:A:4:ARG:HD2	1:B:137:LYS:O	2.05	0.55	
1:B:217:ARG:O	1:B:219:PHE:N	2.41	0.54	
1:A:137:LYS:NZ	4:A:412:HOH:O	2.42	0.53	
1:A:154:TYR:HB2	4:A:585:HOH:O	2.11	0.51	
1:A:186:VAL:H	1:A:192:GLN:NE2	2.09	0.51	
1:A:200:ILE:HG23	3:A:307:MRD:HMC2	1.93	0.50	
1:A:109:GLY:HA2	1:A:200:ILE:HD13	1.96	0.47	
1:B:233:VAL:HG11	1:B:269:LYS:HG3	1.97	0.47	
1:A:109:GLY:HA3	3:A:307:MRD:H1C1	1.96	0.46	
1:B:88:ARG:NH2	4:B:593:HOH:O	2.39	0.46	
1:B:90:LYS:HE3	4:B:409:HOH:O	2.15	0.46	
1:B:19:GLN:NE2	1:B:26:THR:HG21	2.28	0.45	
1:A:40:ARG:HD3	1:A:85:CYS:HA	1.98	0.45	
1:B:106:ILE:HG13	1:B:110:GLN:HB2	1.99	0.44	
1:B:240:GLU:HG2	4:B:327:HOH:O	2.18	0.43	
1:B:279:ARG:HD3	4:B:637:HOH:O	2.17	0.43	
1:B:40:ARG:HA	1:B:87:LEU:HG	2.00	0.43	
1:B:113:SER:O	1:B:149:GLY:HA2	2.18	0.43	
1:B:159:PHE:HB3	1:B:177:LEU:HD13	2.01	0.42	
1:B:298[A]:ARG:NH1	4:B:430:HOH:O	2.52	0.42	
1:A:2:GLY:HA3	1:B:138:GLY:O	2.19	0.42	
1:A:22:CYS:SG	1:A:61:LYS:HE3	2.60	0.42	
1:A:108:PRO:HB3	1:A:132:PRO:HA	2.02	0.42	

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:HIS:HD2	4:A:337:HOH:O	2.03	0.42
1:B:113:SER:OG	1:B:127:GLN:NE2	2.53	0.42
1:B:240:GLU:HG3	4:B:359:HOH:O	2.18	0.42
1:A:47:GLU:C	1:A:49:MET:N	2.73	0.41
1:A:63:ASN:HB3	1:A:77:VAL:O	2.19	0.41
1:B:5:LYS:NZ	4:B:534:HOH:O	2.53	0.41
1:A:138:GLY:O	1:B:2:GLY:HA3	2.21	0.41

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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)
1:B:240:GLU:OE2	4:A:601:HOH:O[1_655]	1.99	0.21

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	\mathbf{ntiles}
1	А	305/306~(100%)	295~(97%)	9~(3%)	1 (0%)	41	31
1	В	307/306~(100%)	294 (96%)	11 (4%)	2(1%)	22	12
All	All	612/612~(100%)	589~(96%)	20 (3%)	3~(0%)	29	18

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	48	ASP
1	В	218	TRP
1	В	48	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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	264/263~(100%)	258~(98%)	6(2%)	50 45
1	В	266/263~(101%)	253~(95%)	13~(5%)	25 15
2	С	1/4~(25%)	1 (100%)	0	100 100
2	D	1/4~(25%)	1 (100%)	0	100 100
All	All	532/534~(100%)	513 (96%)	19 (4%)	35 26

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	4	ARG
1	А	27	LEU
1	А	49	MET
1	А	93	THR
1	А	132	PRO
1	А	268	LEU
1	В	6	MET
1	В	22	CYS
1	В	24	THR
1	В	27	LEU
1	В	50	LEU
1	В	90	LYS
1	В	127	GLN
1	В	153	ASP
1	В	188	ARG
1	В	268	LEU
1	В	276	MET
1	В	289	ASP
1	В	306	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:



Mol	Chain	Res	Type
1	А	41	HIS
1	А	134	HIS
1	А	164	HIS
1	А	192	GLN
1	А	231	ASN
1	А	299	GLN
1	В	19	GLN
1	В	84	ASN
1	В	127	GLN
1	В	164	HIS
1	В	172	HIS
1	В	192	GLN
1	В	299	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)

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).

Mol Type	Chain	Dec	Link	В	Bond lengths			Bond angles		
INIOI	Type	Chain	Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	ECC	D	5	2,1	8,8,8	0.75	0	8,9,9	1.00	1 (12%)
2	ECC	С	5	2,1	8,8,8	0.42	0	8,9,9	0.95	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
2	ECC	D	5	2,1	-	1/7/7/7	-
2	ECC	С	5	2,1	-	0/7/7/7	-



There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	D	5	ECC	CB-CG-CD	-2.34	104.59	112.55

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	5	ECC	O-C-CA-N

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)

1 ligand 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).

ſ	Mol Type Chain	Chain	Res	Link	Bond lengths			Bond angles			
		Ullalli			Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
	3	MRD	А	307	-	7,7,7	0.86	0	$9,\!10,\!10$	1.74	2 (22%)

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	MRD	А	307	-	-	2/5/5/5	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms		$Observed(^{o})$	$Ideal(^{o})$
3	А	307	MRD	O2-C2-C1	-3.05	98.49	107.99
3	А	307	MRD	C1-C2-C3	2.45	120.78	110.20

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	307	MRD	C2-C3-C4-C5
3	А	307	MRD	CM-C2-C3-C4

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	307	MRD	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	$\mathbf{OWAB}(\mathbf{A}^2)$	Q < 0.9
1	А	306/306~(100%)	-0.27	11 (3%) 42 45	11, 19, 35, 59	0
1	В	306/306~(100%)	-0.21	12 (3%) 39 42	8, 19, 40, 68	1 (0%)
2	С	1/6~(16%)	1.05	0 100 100	41, 41, 41, 41	0
2	D	1/6~(16%)	1.45	0 100 100	43, 43, 43, 43	0
All	All	614/624~(98%)	-0.24	23 (3%) 41 44	8, 19, 40, 68	1 (0%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	46	ALA	7.7
1	В	47	GLU	6.4
1	В	154	TYR	4.9
1	А	154	TYR	4.6
1	А	191	ALA	3.8
1	В	45	THR	3.7
1	А	50	LEU	3.6
1	В	64	HIS	3.4
1	В	191	ALA	2.9
1	А	46	ALA	2.8
1	А	48	ASP	2.7
1	В	306	GLN	2.6
1	А	47	GLU	2.6
1	А	72	ASN	2.6
1	А	49	MET	2.5
1	В	49	MET	2.5
1	В	189	GLN	2.5
1	В	51	ASN	2.4
1	А	45	THR	2.3
1	А	303	VAL	2.2
1	В	72	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
1	А	51	ASN	2.0
1	В	50	LEU	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	$B-factors(Å^2)$	Q < 0.9
2	ECC	D	5	9/9	0.89	0.16	25,31,34,36	0
2	ECC	С	5	9/9	0.92	0.14	30,36,38,40	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
3	MRD	А	307	8/8	0.86	0.16	14,22,32,32	0

6.5 Other polymers (i)

There are no such residues in this entry.

