

# Full wwPDB X-ray Structure Validation Report (i)

#### Sep 12, 2023 - 08:59 PM EDT

PDB ID	:	4NW2
Title	:	Tandem chromodomains of human CHD1 in complex with Influenza virus NS1
		C-terminal tail trimethylated at K229
Authors	:	Qin, S.; Tempel, W.; Xu, C.; El Bakkouri, M.; Bountra, C.; Arrowsmith, C.H.;
		Edwards, A.M.; Min, J.; Structural Genomics Consortium (SGC)
Deposited on	:	2013-12-05
Resolution	:	1.90  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:

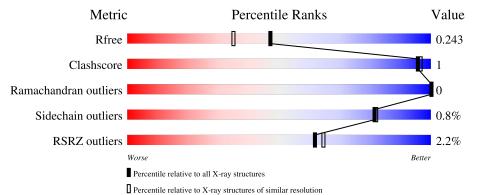
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

# 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 1.90 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	194	% <b>87</b> %	• 11%
1	С	194	87%	• 11%
2	В	15	80%	20%
2	D	15	73% 13%	13%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	UNX	А	514	-	-	-	Х
3	UNX	А	515	-	-	-	Х
3	UNX	С	501	-	-	-	Х
3	UNX	С	506	-	-	-	Х

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



#### 4NW2

## 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3149 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	Λ	173	Total	С	Ν	0	S	0	7	0
	A	175	1387	887	233	260	$\overline{7}$	0	1	0
1	C	173	Total	С	Ν	0	S	0	2	0
	U	175	1365	874	226	258	$\overline{7}$	0		0

• Molecule 1 is a protein called Chromodomain-helicase-DNA-binding protein 1.

Chain	Residue	Modelled	Actual	Comment	Reference
А	250	MET	-	expression tag	UNP O14646
А	251	HIS	-	expression tag	UNP 014646
А	252	HIS	-	expression tag	UNP 014646
А	253	HIS	-	expression tag	UNP 014646
А	254	HIS	-	expression tag	UNP 014646
А	255	HIS	-	expression tag	UNP 014646
А	256	HIS	-	expression tag	UNP 014646
A	257	SER	-	expression tag	UNP 014646
А	258	SER	-	expression tag	UNP 014646
А	259	GLY	-	expression tag	UNP 014646
А	260	ARG	-	expression tag	UNP 014646
А	261	GLU	-	expression tag	UNP 014646
A	262	ASN	-	expression tag	UNP 014646
А	263	LEU	-	expression tag	UNP 014646
А	264	TYR	-	expression tag	UNP 014646
А	265	PHE	-	expression tag	UNP 014646
А	266	GLN	-	expression tag	UNP 014646
А	267	GLY	-	expression tag	UNP 014646
С	250	MET	-	expression tag	UNP 014646
С	251	HIS	-	expression tag	UNP 014646
С	252	HIS	-	expression tag	UNP 014646
С	253	HIS	-	expression tag	UNP 014646
С	254	HIS	-	expression tag	UNP O14646
С	255	HIS	-	expression tag	UNP O14646
С	256	HIS	-	expression tag	UNP O14646

There are 36 discrepancies between the modelled and reference sequences:

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Chain	Residue	Modelled	Actual	Comment	Reference
С	257	SER	-	expression tag	UNP 014646
С	258	SER	-	expression tag	UNP 014646
С	259	GLY	-	expression tag	UNP 014646
С	260	ARG	-	expression tag	UNP 014646
С	261	GLU	-	expression tag	UNP 014646
С	262	ASN	-	expression tag	UNP 014646
С	263	LEU	-	expression tag	UNP O14646
С	264	TYR	-	expression tag	UNP 014646
С	265	PHE	-	expression tag	UNP 014646
С	266	GLN	-	expression tag	UNP 014646
С	267	GLY	-	expression tag	UNP 014646

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• Molecule 2 is a protein called Nonstructural protein 1.

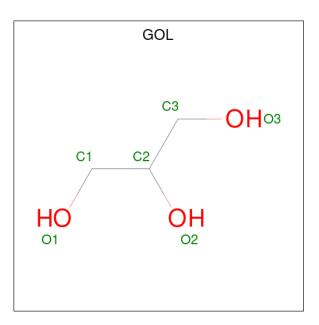
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	В	12	Total 92		N 22	0	0	0
2	D	13	Total 101			0	1	0

• Molecule 3 is UNKNOWN ATOM OR ION (three-letter code: UNX) (formula: X).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	18	Total X 18 18	0	0
3	С	12	Total X 12 12	0	0
3	D	1	Total X 1 1	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

• Molecule 5 is water.

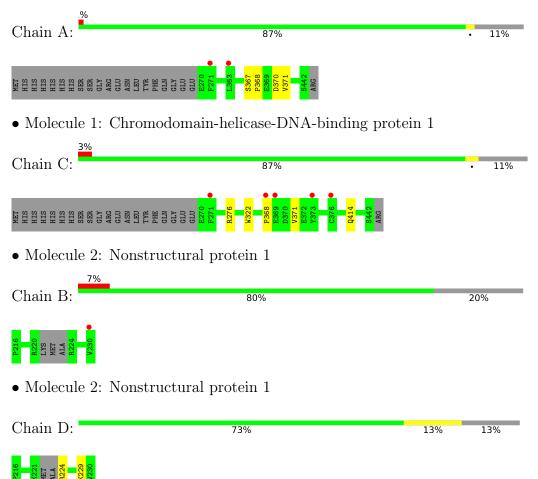
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	73	Total O 73 73	0	0
5	В	4	Total O 4 4	0	0
5	С	80	Total         O           80         80	0	0
5	D	4	Total O 4 4	0	0



## 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: Chromodomain-helicase-DNA-binding protein 1





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	48.56Å 92.25Å 110.04Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	42.97 - 1.90	Depositor
Resolution (A)	47.25 - 1.90	EDS
% Data completeness	99.9 (42.97-1.90)	Depositor
(in resolution range)	$100.0 \ (47.25 - 1.90)$	EDS
R <sub>merge</sub>	0.07	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.32 (at 1.90 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.8.4_1496	Depositor
D D.	0.199 , $0.242$	Depositor
$R, R_{free}$	0.202 , $0.243$	DCC
$R_{free}$ test set	2444 reflections $(6.15%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	29.1	Xtriage
Anisotropy	0.575	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , $52.2$	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3149	wwPDB-VP
Average B, all atoms $(Å^2)$	39.0	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 43.93 % 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 1.6425e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: M3L, GOL, UNX

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.34	0/1456	0.46	0/1974	
1	С	0.36	0/1407	0.47	0/1910	
2	В	0.25	0/79	0.42	0/101	
2	D	0.22	0/90	0.44	0/115	
All	All	0.35	0/3032	0.46	0/4100	

There are no bond length outliers.

There are no bond angle outliers.

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	1387	0	1251	4	0
1	С	1365	0	1229	4	0
2	В	92	0	93	0	0
2	D	101	0	103	1	0
3	А	18	0	0	0	0
3	С	12	0	0	0	0
3	D	1	0	0	0	0
4	В	6	0	8	0	0
4	С	6	0	8	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	А	73	0	0	0	0
5	В	4	0	0	0	0
5	С	80	0	0	0	0
5	D	4	0	0	0	0
All	All	3149	0	2692	6	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 1.

All (6) 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:370:ASP:HA	1:C:276:ARG:HH22	1.62	0.63
1:A:370:ASP:HA	1:C:276:ARG:NH2	2.27	0.48
1:C:368:PRO:HA	1:C:371[A]:VAL:HG22	1.97	0.46
1:C:322:TRP:CG	2:D:229:M3L:HM22	2.51	0.46
1:A:367:SER:O	1:A:370:ASP:N	2.44	0.45
1:A:368:PRO:HA	1:A:371:VAL:HB	2.04	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	Perce	entiles
1	А	178/194~(92%)	177~(99%)	1 (1%)	0	100	100
1	$\mathbf{C}$	173/194~(89%)	173~(100%)	0	0	100	100
2	В	7/15~(47%)	7~(100%)	0	0	100	100
2	D	9/15~(60%)	$8 \ (89\%)$	1 (11%)	0	100	100
All	All	367/418~(88%)	365~(100%)	2~(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 side chain 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	Perce	ntiles
1	А	134/170~(79%)	134 (100%)	0	100	100
1	С	128/170~(75%)	127~(99%)	1 (1%)	81	82
2	В	6/12~(50%)	6 (100%)	0	100	100
2	D	8/12~(67%)	7~(88%)	1 (12%)	4	1
All	All	276/364~(76%)	274~(99%)	2(1%)	81	84

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	414	GLN
2	D	224	ARG

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

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).



	ſol	Type	Chain	Res	Link	Bo	ond leng	$\mathbf{ths}$	B	ond ang	gles
IV	101	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
	2	M3L	В	229	2	$10,\!11,\!12$	0.49	0	9,14,16	0.55	0
	2	M3L	D	229	2	10,11,12	0.49	0	9,14,16	0.68	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	M3L	В	229	2	-	5/9/10/12	-
2	M3L	D	229	2	-	0/9/10/12	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	229	M3L	CA-CB-CG-CD
2	В	229	M3L	CE-CD-CG-CB
2	В	229	M3L	CD-CE-NZ-CM1
2	В	229	M3L	CD-CE-NZ-CM3
2	В	229	M3L	CD-CE-NZ-CM2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	229	M3L	1	0

### 5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry (i)

Of 33 ligands modelled in this entry, 31 are unknown - leaving 2 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	Chain	Chain	Chain	Chain	Chain	Chain	Res	Link	B	ond leng	$\operatorname{gths}$	В	ond ang	gles
IVI	101	туре	Chain	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2					
4	4	GOL	С	513	-	$5,\!5,\!5$	0.27	0	$5,\!5,\!5$	0.66	0					
4	4	GOL	В	301	-	$5,\!5,\!5$	0.37	0	$5,\!5,\!5$	0.60	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	С	513	-	-	0/4/4/4	-
4	GOL	В	301	-	-	0/4/4/4	-

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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	173/194~(89%)	0.07	2 (1%) 79 81	18, 34, 78, 101	0
1	С	173/194~(89%)	0.08	5 (2%) 51 54	20, 33, 77, 96	0
2	В	11/15~(73%)	0.41	1 (9%) 9 10	42, 62, 81, 83	0
2	D	12/15~(80%)	0.44	0 100 100	42, 63, 89, 97	0
All	All	369/418~(88%)	0.10	8 (2%) 62 64	18, 34, 81, 101	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	368	PRO	3.0
1	А	271[A]	PHE	3.0
1	А	363	LEU	2.8
1	С	373	TYR	2.7
2	В	230	VAL	2.5
1	С	369	GLU	2.3
1	С	271	PHE	2.2
1	С	376	CYS	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	$B-factors(Å^2)$	Q < 0.9
2	M3L	В	229	12/13	0.92	0.15	35,41,48,49	0
2	M3L	D	229	12/13	0.94	0.15	34,39,48,49	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 <sup>2</sup> )	Q<0.9
3	UNX	А	508	1/1	0.26	0.36	47,47,47,47	0
3	UNX	А	514	1/1	0.56	0.45	44,44,44,44	0
3	UNX	А	505	1/1	0.60	0.20	43,43,43,43	0
3	UNX	А	515	1/1	0.70	0.46	57,57,57,57	0
3	UNX	С	505	1/1	0.71	0.29	41,41,41,41	0
3	UNX	А	510	1/1	0.73	0.39	49,49,49,49	0
3	UNX	С	506	1/1	0.74	0.42	54,54,54,54	0
3	UNX	С	504	1/1	0.75	0.21	38,38,38,38	0
3	UNX	А	513	1/1	0.76	0.20	26,26,26,26	0
3	UNX	А	507	1/1	0.78	0.25	45,45,45,45	0
3	UNX	С	501	1/1	0.79	0.51	57,57,57,57	0
3	UNX	А	502	1/1	0.81	0.46	$50,\!50,\!50,\!50$	0
3	UNX	А	509	1/1	0.81	0.32	44,44,44,44	0
3	UNX	А	511	1/1	0.82	0.18	33,33,33,33	0
3	UNX	А	517	1/1	0.82	0.20	30,30,30,30	0
3	UNX	С	509	1/1	0.83	0.18	40,40,40,40	0
3	UNX	D	301	1/1	0.83	0.34	42,42,42,42	0
3	UNX	С	503	1/1	0.87	0.19	17,17,17,17	0
3	UNX	С	510	1/1	0.88	0.19	30,30,30,30	0
3	UNX	С	512	1/1	0.88	0.34	44,44,44,44	0
3	UNX	А	506	1/1	0.88	0.23	39,39,39,39	0
3	UNX	А	504	1/1	0.89	0.25	41,41,41,41	0
3	UNX	С	511	1/1	0.89	0.16	30,30,30,30	0
3	UNX	А	518	1/1	0.90	0.16	38,38,38,38	0
3	UNX	С	507	1/1	0.91	0.15	$25,\!25,\!25,\!25$	0
3	UNX	А	503	1/1	0.93	0.17	18,18,18,18	0
3	UNX	А	501	1/1	0.94	0.16	16,16,16,16	0
4	GOL	С	513	6/6	0.94	0.12	$23,\!31,\!35,\!37$	0
3	UNX	А	516	1/1	0.95	0.11	43,43,43,43	0
4	GOL	В	301	6/6	0.96	0.13	22,29,30,31	0
3	UNX	А	512	1/1	0.96	0.19	26,26,26,26	0
3	UNX	С	502	1/1	0.97	0.13	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
3	UNX	С	508	1/1	0.98	0.16	$19,\!19,\!19,\!19$	0

## 6.5 Other polymers (i)

There are no such residues in this entry.

