

wwPDB X-ray Structure Validation Summary Report (i)

Mar 4, 2024 - 03:05 AM EST

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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:

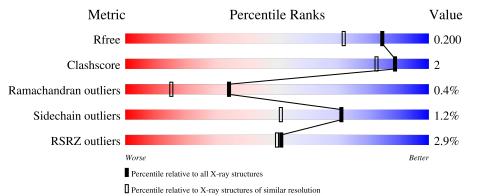
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, 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 1.64 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	3122 (1.66-1.62)
Clashscore	141614	3268(1.66-1.62)
Ramachandran outliers	138981	3215 (1.66-1.62)
Sidechain outliers	138945	3215 (1.66-1.62)
RSRZ outliers	127900	3079 (1.66-1.62)

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	401	2% 95%	•••			
1	В	401	% 93%	5% •			
1	С	401	% 92%	5% •			
1	D	401	8% 91%	6% •			

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
3	TAR	А	404	Х	-	-	-



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 15095 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	207	Total	С	Ν	0	S	1	15	0
	A	397	3244	2057	576	602	9	1	10	0
1	В	394	Total C N O S	S	1	12	0			
	D	394	3216	2034	570	603	9	T	12	0
1	С	391	Total	С	Ν	0	S	0	20	0
	U	591	3222	2047	566	600	9	0	20	0
1	П	389	Total	С	Ν	0	S	0	7	0
	D	509	3149	1996	556	588	9		1	0

• Molecule 1 is a protein called Glucuronoxylanase xynC.

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	elled Actual Comment		Reference
А	1	MET	-	expression tag	UNP Q45070
А	392	LEU	-	expression tag	UNP Q45070
A	393	GLU	-	expression tag	UNP Q45070
А	394	HIS	-	expression tag	UNP Q45070
А	395	HIS	-	expression tag	UNP Q45070
А	396	HIS	-	expression tag	UNP Q45070
А	397	HIS	-	expression tag	UNP Q45070
А	398	HIS	-	expression tag	UNP Q45070
А	399	HIS	-	expression tag	UNP Q45070
А	400	HIS	-	expression tag	UNP Q45070
А	401	HIS	-	expression tag	UNP Q45070
В	1	MET	-	expression tag	UNP Q45070
В	392	LEU	-	expression tag	UNP Q45070
В	393	GLU	-	expression tag	UNP Q45070
В	394	HIS	-	expression tag	UNP Q45070
В	395	HIS	-	expression tag	UNP Q45070
В	396	HIS	-	expression tag	UNP Q45070
В	397	HIS	-	expression tag	UNP Q45070
В	398	HIS	-	expression tag	UNP Q45070
В	399	HIS	-	expression tag	UNP Q45070
В	400	HIS	-	expression tag	UNP Q45070

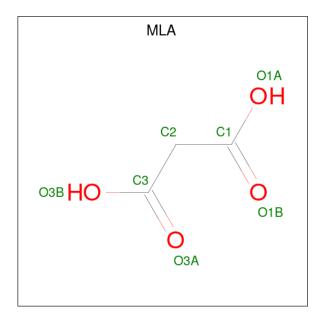
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Chain	Residue	Modelled	Actual	Comment	Reference
В	401	HIS	-	expression tag	UNP Q45070
С	1	MET	-	expression tag	UNP Q45070
С	392	LEU	-	expression tag	UNP Q45070
С	393	GLU	-	expression tag	UNP Q45070
С	394	HIS	-	expression tag	UNP Q45070
С	395	HIS	-	expression tag	UNP Q45070
С	396	HIS	-	expression tag	UNP Q45070
С	397	HIS	-	expression tag	UNP Q45070
С	398	HIS	-	expression tag	UNP Q45070
С	399	HIS	-	expression tag	UNP Q45070
С	400	HIS	-	expression tag	UNP Q45070
С	401	HIS	-	expression tag	UNP Q45070
D	1	MET	-	expression tag	UNP Q45070
D	392	LEU	-	expression tag	UNP Q45070
D	393	GLU	-	expression tag	UNP Q45070
D	394	HIS	-	expression tag	UNP Q45070
D	395	HIS	-	expression tag	UNP Q45070
D	396	HIS	-	expression tag	UNP Q45070
D	397	HIS	-	expression tag	UNP Q45070
D	398	HIS	-	expression tag	UNP Q45070
D	399	HIS	-	expression tag	UNP Q45070
D	400	HIS	-	expression tag	UNP Q45070
D	401	HIS	-	expression tag	UNP Q45070

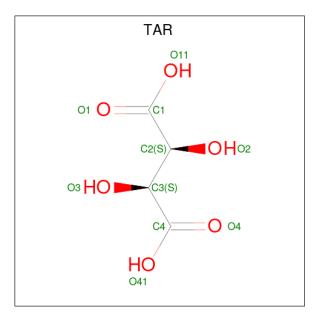
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• Molecule 2 is MALONIC ACID (three-letter code: MLA) (formula: $C_3H_4O_4$).





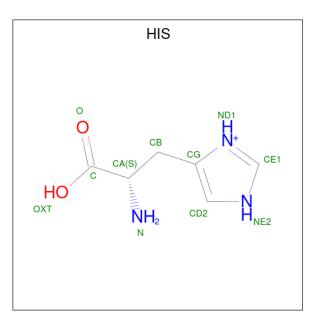
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 3 & 4 \end{array}$	0	0
2	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 3 & 4 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 3 & 4 \end{array}$	0	0
2	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 3 & 4 \end{array}$	0	0
2	D	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 7 & 3 & 4 \end{array}$	0	0



[Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
	3	А	1	Total 10	$\begin{array}{c} \mathrm{C} \\ 4 \end{array}$	O 6	0	0

• Molecule 4 is HISTIDINE (three-letter code: HIS) (formula: $C_6H_{10}N_3O_2$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C N O 10 6 3 1	0	0
4	А	1	Total C N O 17 11 5 1	0	1

• Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Na 1 1	0	0
5	В	1	Total Na 1 1	0	0
5	С	1	Total Na 1 1	0	0
5	D	1	Total Na 1 1	0	0

• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	629	Total O 629 629	0	0
6	В	582	Total O 582 582	0	0
6	С	561	Total O 561 561	0	0

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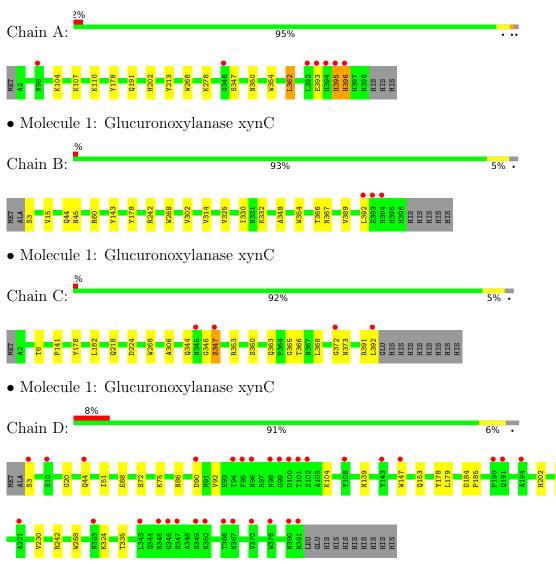
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	D	416	Total O 416 416	0	0



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: Glucuronoxylanase xynC



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	138.49Å 195.80Å 66.25Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 - 1.64	Depositor
Resolution (A)	39.97 - 1.64	EDS
% Data completeness	99.6 (50.00-1.64)	Depositor
(in resolution range)	99.6 (39.97 - 1.64)	EDS
R _{merge}	0.12	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.37 (at 1.64 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
D D	0.167 , 0.201	Depositor
R, R_{free}	0.166 , 0.200	DCC
R_{free} test set	11045 reflections (5.02%)	wwPDB-VP
Wilson B-factor $(Å^2)$	18.6	Xtriage
Anisotropy	0.014	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 46.6	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	15095	wwPDB-VP
Average B, all atoms $(Å^2)$	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.64% 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: TAR, NA, MLA

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	
Moi Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.74	2/3376~(0.1%)	0.78	4/4597~(0.1%)
1	В	0.80	3/3330~(0.1%)	0.75	7/4536~(0.2%)
1	С	0.76	0/3357	0.73	0/4573
1	D	0.62	0/3256	0.62	1/4434~(0.0%)
All	All	0.74	5/13319~(0.0%)	0.72	12/18140~(0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
1	В	45[A]	ASN	CG-ND2	7.43	1.51	1.32
1	В	45[B]	ASN	CG-ND2	7.43	1.51	1.32
1	А	350[A]	ASN	CG-ND2	-5.50	1.19	1.32
1	А	350[B]	ASN	CG-ND2	-5.50	1.19	1.32
1	В	354	TRP	CB-CG	-5.03	1.41	1.50

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	350[A]	ASN	CB-CG-ND2	11.26	143.73	116.70
1	А	350[B]	ASN	CB-CG-ND2	11.26	143.73	116.70
1	А	350[A]	ASN	OD1-CG-ND2	-11.22	96.08	121.90
1	А	350[B]	ASN	OD1-CG-ND2	-11.22	96.08	121.90
1	В	242	ARG	NE-CZ-NH2	-7.17	116.71	120.30

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	3244	0	3121	9	0
1	В	3216	0	3071	10	0
1	С	3222	0	3127	14	0
1	D	3149	0	3012	12	0
2	А	14	0	4	0	0
2	В	7	0	2	0	0
2	С	7	0	2	0	0
2	D	7	0	2	0	0
3	А	10	0	4	0	0
4	А	27	0	20	3	0
5	А	1	0	0	0	0
5	В	1	0	0	0	0
5	С	1	0	0	0	0
5	D	1	0	0	0	0
6	А	629	0	0	6	1
6	В	582	0	0	5	1
6	С	561	0	0	3	0
6	D	416	0	0	4	0
All	All	15095	0	12365	47	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 2.

The worst 5 of 47 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:366:THR:HB	6:B:1640:HOH:O	1.71	0.89
6:B:1036:HOH:O	1:C:218:GLN:HG3	1.79	0.81
1:C:391:ARG:O	1:C:392:LEU:HB2	1.90	0.71
1:D:68[B]:GLU:OE1	6:D:2053:HOH:O	2.09	0.70
1:C:353[B]:ARG:HD2	1:C:365:GLY:HA3	1.75	0.68

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)	
6:A:578:HOH:O	6:B:1682:HOH:O[1_556]	2.19	0.01	

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	410/401~(102%)	399~(97%)	9~(2%)	2~(0%)	29	11
1	В	404/401~(101%)	393~(97%)	10 (2%)	1 (0%)	47	26
1	С	410/401~(102%)	397~(97%)	10 (2%)	3~(1%)	22	6
1	D	394/401~(98%)	382~(97%)	11 (3%)	1 (0%)	41	21
All	All	1618/1604~(101%)	1571 (97%)	40 (2%)	7~(0%)	34	15

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	347[A]	SER
1	С	347[B]	SER
1	А	268	TRP
1	С	268	TRP
1	D	268	TRP

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	352/341~(103%)	346~(98%)	6(2%)	60 36	

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	В	347/341~(102%)	345~(99%)	2(1%)	86 75
1	С	351/341~(103%)	349~(99%)	2(1%)	86 75
1	D	337/341~(99%)	330~(98%)	7~(2%)	53 26
All	All	1387/1364 (102%)	1370 (99%)	17 (1%)	71 51

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5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	213	TYR
1	D	335	THR
1	В	178	TYR
1	С	178	TYR
1	С	224	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	313	ASN
1	А	340	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)

Of 13 ligands modelled in this entry, 4 are monoatomic - leaving 9 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	Trune	Chain	Dec	Link	В	ond leng	gths	В	ond ang	les
	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
4	HIS	А	406[A]	-	5,10,11	0.53	0	3,12,14	1.25	0
2	MLA	В	402	-	$6,\!6,\!6$	1.23	0	7,7,7	1.32	0
4	HIS	А	406[B]	-	$5,\!10,\!11$	0.53	0	$3,\!12,\!14$	1.28	0
2	MLA	D	402	-	$6,\!6,\!6$	1.65	2 (33%)	7, 7, 7	1.38	1 (14%)
2	MLA	С	402	-	$6,\!6,\!6$	1.22	0	7,7,7	1.09	0
2	MLA	А	402	-	$6,\!6,\!6$	1.13	0	7,7,7	1.16	0
4	HIS	А	405	4	5,10,11	0.76	0	3,12,14	1.27	1 (33%)
2	MLA	А	403	-	6,6,6	1.26	1 (16%)	7,7,7	1.04	0
3	TAR	А	404	-	$9,\!9,\!9$	1.17	0	12,12,12	1.37	1 (8%)

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	HIS	А	406[A]	-	-	0/5/6/8	0/1/1/1
2	MLA	В	402	-	-	0/4/4/4	-
4	HIS	А	406[B]	-	-	2/5/6/8	0/1/1/1
2	MLA	D	402	-	-	2/4/4/4	-
2	MLA	С	402	-	-	0/4/4/4	-
2	MLA	А	402	-	-	0/4/4/4	-
4	HIS	А	405	4	-	1/5/6/8	0/1/1/1
2	MLA	А	403	-	-	0/4/4/4	-
3	TAR	А	404	-	2/2/4/4	0/12/12/12	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	D	402	MLA	C2-C3	2.25	1.54	1.51
2	А	403	MLA	O3B-C3	-2.13	1.23	1.30
2	D	402	MLA	C2-C1	2.03	1.54	1.51

All (3) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	404	TAR	O3-C3-C4	-2.49	105.45	110.66
2	D	402	MLA	O1A-C1-C2	2.09	121.23	114.54
4	А	405	HIS	CD2-NE2-CE1	2.01	108.91	105.78

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	А	404	TAR	C2
3	А	404	TAR	C3

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	406[B]	HIS	CA-CB-CG-ND1
2	D	402	MLA	O1A-C1-C2-C3
4	А	406[B]	HIS	CA-CB-CG-CD2
2	D	402	MLA	O1B-C1-C2-C3
4	А	405	HIS	CA-CB-CG-ND1

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	406[B]	HIS	2	0
4	А	405	HIS	1	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	$OWAB(Å^2)$	$Q{<}0.9$
1	А	397/401~(99%)	-0.26	7 (1%) 68 69	11, 17, 28, 61	3~(0%)
1	В	394/401~(98%)	-0.45	3 (0%) 86 87	10, 15, 25, 40	3 (0%)
1	С	391/401~(97%)	-0.42	4 (1%) 82 83	10, 15, 25, 40	4 (1%)
1	D	389/401~(97%)	0.32	32 (8%) 11 10	15, 25, 41, 52	0
All	All	1571/1604~(97%)	-0.20	46 (2%) 51 50	10, 17, 34, 61	10 (0%)

The worst 5 of 46 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	395	HIS	9.0
1	А	394	HIS	8.6
1	С	392	LEU	6.4
1	D	98	ASN	6.1
1	А	392	LEU	5.8

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.



3KL0

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	HIS	А	406[A]	10/11	0.82	0.13	26,32,35,36	7
4	HIS	А	406[B]	10/11	0.82	0.13	26,31,35,36	7
2	MLA	А	403	7/7	0.89	0.11	21,24,33,37	0
4	HIS	А	405	10/11	0.89	0.15	31,32,35,36	0
2	MLA	D	402	7/7	0.94	0.08	23,26,28,30	0
2	MLA	А	402	7/7	0.94	0.08	21,23,25,26	0
5	NA	D	403	1/1	0.94	0.08	34,34,34,34	0
2	MLA	С	402	7/7	0.95	0.07	20,25,28,28	0
3	TAR	А	404	10/10	0.95	0.08	19,23,29,30	0
5	NA	В	403	1/1	0.98	0.04	20,20,20,20	0
2	MLA	В	402	7/7	0.98	0.04	17,17,19,20	0
5	NA	С	403	1/1	0.99	0.05	20,20,20,20	0
5	NA	А	407	1/1	0.99	0.05	18,18,18,18	0

6.5 Other polymers (i)

There are no such residues in this entry.

