

wwPDB X-ray Structure Validation Summary Report (i)

Oct 5, 2023 – 08:03 AM EDT

PDB ID	:	6UX8
Title	:	Structure of monobody 33 MLKL N-terminal domain complex
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Deposited on		
Resolution	:	2.50 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:

:	FAILED
:	1.13
:	FAILED
:	20191225.v01 (using entries in the PDB archive December 25th 2019)
:	Engh & Huber (2001)
:	Parkinson et al. (1996)
:	2.35.1
	: : : :

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\hbox{-}RAY\,DIFFRACTION$

The reported resolution of this entry is 2.50 Å.

There are no overall percentile quality scores available for this entry.

MolProbity and EDS failed to run properly - the sequence quality summary graphics cannot be shown.



6UX8

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 1854 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 Mixed lineage kinase domain-like protein.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	152	Total 1191	С 740	N 219	0 224	S 8	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	-3	GLY	-	expression tag	UNP Q8NB16
А	-2	ALA	-	expression tag	UNP Q8NB16
А	-1	MET	-	expression tag	UNP Q8NB16
А	0	GLY	-	expression tag	UNP Q8NB16
А	1	SER	-	expression tag	UNP Q8NB16
А	2	GLU	-	expression tag	UNP Q8NB16
А	3	ASN	-	expression tag	UNP Q8NB16
А	4	LEU	-	expression tag	UNP Q8NB16

• Molecule 2 is a protein called Monobody.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace	
2	В	86	Total 645	C 416	N 96	O 133	0	0	0

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	3	Total Zn 3 3	0	0
3	В	1	Total Zn 1 1	0	0

• Molecule 4 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	8	Total O 8 8	0	0
4	В	6	Total O 6 6	0	0

MolProbity and EDS failed to run properly - this section is therefore empty.



3 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 21 21 21	Depositor	
Cell constants	58.29Å 59.42 Å 68.04 Å	Depositor	
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor	
Resolution (Å)	44.76 - 2.50	Depositor	
% Data completeness	99.5 (44.76-2.50)	Depositor	
(in resolution range)	· · · · · · · · · · · · · · · · · · ·	-	
R _{merge}	0.17	Depositor	
R _{sym}	(Not available)	Depositor	
$< I/\sigma(I) > 1$	1.62 (at 2.51Å)	Xtriage	
Refinement program	PHENIX 1.17.1_3660	Depositor	
R, R_{free}	0.247 , 0.296	Depositor	
Wilson B-factor ($Å^2$)	46.1	Xtriage	
Anisotropy	0.691	Xtriage	
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.33$	Xtriage	
Estimated twinning fraction	0.018 for k,h,-l	Xtriage	
Total number of atoms	1854	wwPDB-VP	
Average B, all atoms $(Å^2)$	65.0	wwPDB-VP	

EDS failed to run properly - this section is therefore incomplete.

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.83% 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.

4 Model quality (i)

4.1 Standard geometry (i)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts (i)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles (i)

4.3.1 Protein backbone (i)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains (i)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA (i)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates (i)

There are no monosaccharides in this entry.

4.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

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.

4.7 Other polymers (i)

There are no such residues in this entry.

4.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



5 Fit of model and data (i)

5.1 Protein, DNA and RNA chains (i)

EDS failed to run properly - this section is therefore empty.

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

EDS failed to run properly - this section is therefore empty.

5.3 Carbohydrates (i)

EDS failed to run properly - this section is therefore empty.

5.4 Ligands (i)

EDS failed to run properly - this section is therefore empty.

5.5 Other polymers (i)

EDS failed to run properly - this section is therefore empty.

