W O R L D W I D E
wwPDB
P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 2, 2023 – 07:15 AM EDT

PDB ID	:	6N34
Title	:	Crystal structure of the BTB domain of Human NS1-BP
Authors	:	Zhang, K.; Shang, G.; Padavannil, A.; Fontoura, B.; Chook, Y.M.
Deposited on	:	2018-11-14
Resolution	:	2.80 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 ⓘ 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 ⓘ) were used in the production of this report:

MolProbity	:	FAILED
Xtriage (Phenix)	:	1.13
EDS	:	FAILED
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
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 ⓘ

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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.

2 Entry composition ⓘ

There is only 1 type of molecule in this entry. The entry contains 1884 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 Influenza virus NS1A-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	119	Total	C	N	O	S	0	0	0
			948	605	159	175	9			
1	B	119	Total	C	N	O	S	0	0	0
			936	596	156	176	8			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	138	LEU	-	expression tag	UNP Q9Y6Y0
A	139	GLU	-	expression tag	UNP Q9Y6Y0
A	140	HIS	-	expression tag	UNP Q9Y6Y0
A	141	HIS	-	expression tag	UNP Q9Y6Y0
A	142	HIS	-	expression tag	UNP Q9Y6Y0
A	143	HIS	-	expression tag	UNP Q9Y6Y0
A	144	HIS	-	expression tag	UNP Q9Y6Y0
A	145	HIS	-	expression tag	UNP Q9Y6Y0
B	138	LEU	-	expression tag	UNP Q9Y6Y0
B	139	GLU	-	expression tag	UNP Q9Y6Y0
B	140	HIS	-	expression tag	UNP Q9Y6Y0
B	141	HIS	-	expression tag	UNP Q9Y6Y0
B	142	HIS	-	expression tag	UNP Q9Y6Y0
B	143	HIS	-	expression tag	UNP Q9Y6Y0
B	144	HIS	-	expression tag	UNP Q9Y6Y0
B	145	HIS	-	expression tag	UNP Q9Y6Y0

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

3 Data and refinement statistics ⓘ

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

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	41.87Å 72.60Å 92.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.17 – 2.80	Depositor
% Data completeness (in resolution range)	98.9 (38.17-2.80)	Depositor
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	1.89 (at 2.81Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.225 , 0.297	Depositor
Wilson B-factor (Å^2)	88.3	Xtriage
Anisotropy	0.206	Xtriage
L-test for twinning [2]	$<\|L\|> = 0.48$, $<L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	1884	wwPDB-VP
Average B, all atoms (Å^2)	98.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.30% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $<\|L\|>$, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

4 Model quality ⓘ

4.1 Standard geometry ⓘ

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

4.2 Too-close contacts ⓘ

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

4.3 Torsion angles ⓘ

4.3.1 Protein backbone ⓘ

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

4.3.2 Protein sidechains ⓘ

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

4.3.3 RNA ⓘ

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

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

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

4.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

4.6 Ligand geometry ⓘ

There are no ligands in this entry.

4.7 Other polymers ⓘ

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 ⓘ

5.1 Protein, DNA and RNA chains ⓘ

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

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

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

5.3 Carbohydrates ⓘ

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

5.4 Ligands ⓘ

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

5.5 Other polymers ⓘ

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