

wwPDB X-ray Structure Validation Summary Report (i)

Oct 3, 2023 – 08:36 AM EDT

PDB ID : 6OX7

Title: The complex of 1918 NS1-ED and the iSH2 domain of the human p85beta

subunit of PI3K

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Deposited on : 2019-05-13

Resolution : 2.75 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:

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 (i)

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

The reported resolution of this entry is 2.75 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 (i)

There are 3 unique types of molecules in this entry. The entry contains 4262 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 Non-structural protein 1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	127	Total 1001	C 628		O 190	S 7	0	0	0
1	В	119	Total 942			O 176	S 7	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	187	ARG	TRP	engineered mutation	UNP Q99AU3
В	187	ARG	TRP	engineered mutation	UNP Q99AU3

• Molecule 2 is a protein called Phosphatidylinositol 3-kinase regulatory subunit beta.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
9	С	129	Total	С	N	О	S	0	0	0
		129	1081	671	196	211	3	U		
9	D	144	Total	С	N	О	S	0	0	0
2		144	1207	747	221	236	3			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	433	GLY	-	expression tag	UNP O00459
С	434	SER	-	expression tag	UNP O00459
С	501	SER	CYS	engineered mutation	UNP O00459
D	433	GLY	-	expression tag	UNP O00459
D	434	SER	-	expression tag	UNP O00459
D	501	SER	CYS	engineered mutation	UNP O00459

• Molecule 3 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	4	Total O 4 4	0	0
3	С	5	Total O 5 5	0	0
3	В	11	Total O 11 11	0	0
3	D	11	Total O 11 11	0	0

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



3 Data and refinement statistics (i)

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

Property	Value	Source	
Space group	P 1 21 1	Depositor	
Cell constants	60.98Å 94.03Å 67.22Å	Depositor	
a, b, c, α , β , γ	90.00° 105.31° 90.00°	Depositor	
Resolution (Å)	44.65 - 2.75	Depositor	
% Data completeness	99.9 (44.65-2.75)	Depositor	
(in resolution range)	33.3 (11.00 2.10)		
R_{merge}	0.16	Depositor	
R_{sym}	(Not available)	Depositor	
$< I/\sigma(I) > 1$	1.91 (at 2.77Å)	Xtriage	
Refinement program	PHENIX 1.13_2998	Depositor	
R, R_{free}	0.228 , 0.263	Depositor	
Wilson B-factor (\mathring{A}^2)	50.8	Xtriage	
Anisotropy	0.236	Xtriage	
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.33$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
Total number of atoms	4262	wwPDB-VP	
Average B, all atoms (Å ²)	60.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.91% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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)

There are no ligands in this entry.

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.

