

wwPDB X-ray Structure Validation Summary Report (i)

Oct 3, 2023 – 06:05 AM EDT

PDB ID : 6PPM

Title : Ancestral Caspase 6

Authors : Clark, A.C. Deposited on : 2019-07-08

Resolution : 2.61 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 2.61 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 4 unique types of molecules in this entry. The entry contains 7697 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 Ancestral Caspase-6 Large Subunit.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1 A	Λ	151	Total	С	N	О	S	0	0	0
	A		1185	746	206	226	7			
1	1 G	151	Total	С	N	О	S	0	1	0
1			1183	749	205	223	6			
1	С	145	Total	С	N	О	S	0	0	0
			1107	695	190	216	6			
1	J	144	Total	С	N	О	S	5	1	0
			1089	687	193	203	6			

• Molecule 2 is a protein called Ancestral Caspase-6 small subunit.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2 B		0.4	Total	С	N	О	S	5	2	0
2 D	Б	94	751	488	118	136	9	9		U
2	Н	94	Total	С	N	О	S	0	0	0
2			749	487	118	136	8			
2	D	94	Total	С	N	О	S	0	0	0
2	ע		739	483	114	134	8	0		
2	K	88	Total	С	N	О	S	0	0	0
	17		691	451	110	123	7			U

• Molecule 3 is a protein called VAL-GLU-ILE-ASP Inhibitor.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
3	E	4	Total C N O	0	0	0
			32 20 4 8			
3	3 I	4	Total C N O	0	0	0
3			32 20 4 8			
3	T	4	Total C N O	0	0	0
3	П		32 20 4 8	U		
3	F	1	Total C N O	0	0	0
			7 5 1 1	U		



• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	19	Total O 19 19	0	0
4	В	13	Total O 13 13	0	0
4	E	1	Total O 1 1	0	0
4	G	13	Total O 13 13	0	0
4	Н	16	Total O 16 16	0	0
4	С	9	Total O 9 9	0	0
4	D	9	Total O 9 9	0	0
4	J	13	Total O 13 13	0	0
4	К	7	Total O 7 7	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 21 21 21	Depositor
Cell constants	84.31Å 88.54Å 141.03Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.24 - 2.61	Depositor
% Data completeness	99.7 (42.24-2.61)	Depositor
(in resolution range)	,	
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.11 (at 2.61Å)	Xtriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R, R_{free}	0.177 , 0.251	Depositor
Wilson B-factor $(Å^2)$	51.8	Xtriage
Anisotropy	0.639	Xtriage
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	0.023 for k,h,-l	Xtriage
Total number of atoms	7697	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.69% 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.

