

Full wwPDB X-ray Structure Validation Report (i)

Oct 5, 2023 – 07:13 AM EDT

PDB ID	:	6W0P
Title	:	Putative kojibiose phosphorylase from human microbiome
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Deposited on	:	2020-03-02
Resolution	:	2.23 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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 2.23 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.



6W0P

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 25131 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 Kojibiose phosphorylase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1 A	Λ	752	Total	С	Ν	Ο	\mathbf{S}	0	5	0
	A		6234	4014	1021	1166	33			
1	1 B	751	Total	С	Ν	Ο	S	0	5	0
	D		6220	4006	1021	1162	31			
1 (С	719	Total	С	Ν	Ο	S	0	2	0
	U		5942	3829	978	1104	31			
1	D	677	Total	С	Ν	Ο	S	0	1	0
			5583	3594	923	1036	30			0

• Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	396	Total O 396 396	0	0
2	В	444	Total O 444 444	0	0
2	С	136	Total O 136 136	0	0
2	D	176	Total O 176 176	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	64.22Å 200.45Å 293.12Å	Depositor	
a, b, c, α , β , γ	90.00° 90.00° 90.00°		
Resolution (Å)	49.44 - 2.23	Depositor	
% Data completeness	92.6 (49.44-2.23)	Depositor	
(in resolution range)		-	
R _{merge}	0.09	Depositor	
R _{sym}	(Not available)	Depositor	
$< I/\sigma(I) > 1$	2.22 (at 2.22 Å)	Xtriage	
Refinement program	REFMAC 5.8.0232	Depositor	
R, R_{free}	0.200 , 0.246	Depositor	
Wilson B-factor $(Å^2)$	38.4	Xtriage	
Anisotropy	0.409	Xtriage	
L-test for twinning ²	$ < L >=0.49, < L^2>=0.32$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
Total number of atoms	25131	wwPDB-VP	
Average B, all atoms $(Å^2)$	47.0	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 5.03% 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)

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.

