



PDXK Protein Crystal

Catalog: CBCRY19

PRODUCT INFORMATION

Name	PDXK Protein Crystal
Cat No.	CBCRY19
Fragment	Full length
Protein Description	Pyridoxal kinase
Background	Pyridoxal kinase, a member of the ribokinase superfamily, catalyzes the ATP-dependent phosphorylation react ion of vitamin B6 and is an essential enzyme in the formation of pyridoxal-5'-phosphate, a key cofactor for ove r 100 enzymes. Pyridoxal kinase is thus regarded as a potential target for pharmacological agents. Structure co mparison reveals that the key 12-residue peptide over the active site in HPLK is a beta-strand/loop/beta-strand flap, while the corresponding peptide in sheep brain enzyme adopts a loop conformation. Moreover, HPLK pos sesses a more hydrophobic ATP-binding pocket.
Protein Classification	Transferase
Structure Weight	74135.20 Da
Method	X-Ray Diffraction
Resolution	2.8Å
Reference	Cao, P., Gong, Y., Tang, L., Leung, Y.C., Jiang, T. (2006) Crystal structure of human pyridoxal kinase J.Struc t.Biol. 154: 327-332