



PDXK Protein Crystal

Catalog: CBCRY19

PRODUCT INFORMATION

Name	PDXK Protein Crystal
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Cat No.	CBCRY19
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Fragment	Full length
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Protein Description	Pyridoxal kinase
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Background	Pyridoxal kinase, a member of the ribokinase superfamily, catalyzes the ATP-dependent phosphorylation reaction of vitamin B6 and is an essential enzyme in the formation of pyridoxal-5'-phosphate, a key cofactor for over 100 enzymes. Pyridoxal kinase is thus regarded as a potential target for pharmacological agents. Structure comparison 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 possesses a more hydrophobic ATP-binding pocket.
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Protein Classification	Transferase
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Structure Weight	74135.20 Da
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Method	X-Ray Diffraction
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Resolution	2.8Å
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Reference	Cao, P., Gong, Y., Tang, L., Leung, Y.C., Jiang, T. (2006) Crystal structure of human pyridoxal kinase J.Struct.Biol. 154: 327-332
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