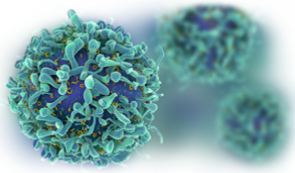

# PDXK Protein Crystal

## 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 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. |
| **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.Struct.Biol. 154: 327-332 |

## USAGE GUIDELINES

| | |
|---|---|
| **General** | Avoid excessive mixing or shocking to prevent aggregation. Long term storage above -80°C may result in aggregate formation. |
| **Storage** | Short term: +2°C to +8°C<br>Long term: -80°C |
| **Stability** | n.a. |

45-1 Ramsey Road, Shirley, NY 11967, USA Tel:1-631-317-1417 Fax:1-631-207-8356

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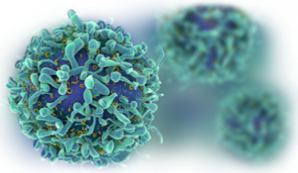

| | |
|---|---|
| **Freezing** | Can be frozen, but avoid multiple freeze/thaw cycles. |

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