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# Recombinant human Pyridoxal Kinase/PDXK protein

Catalog Number: ATGP0777

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-312aa

## **UniProt No.**

000764

#### **NCBI Accession No.**

NP 003672

#### **Alternative Names**

Pyridoxal kinase, PKH, PNK, PRED79, Pyridoxine kinase

# PRODUCT SPECIFICATION

# **Molecular Weight**

37.6 kDa (336aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

## **Description**

PDXK converts vitamin B6 to pyridoxal-5-phosphate (PLP), an essential cofactor in the intermediate metabolism of amino acids and neurotransmitters. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. Recombinant human PDXK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

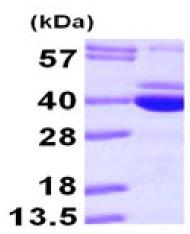
MGSSHHHHHH SSGLVPRGSH MGSHMEEECR VLSIQSHVIR GYVGNRAATF PLQVLGFEID AVNSVQFSNH TGYAHWKGQV LNSDELQELY EGLRLNNMNK YDYVLTGYTR DKSFLAMVVD IVQELKQQNP RLVYVCDPVL GDKWDGEGSM YVPEDLLPVY KEKVVPLADI ITPNQFEAEL LSGRKIHSQE EALRVMDMLH SMGPDTVVIT SSDLPSPQGS NYLIVLGSQR RRNPAGSVVM ERIRMDIRKV DAVFVGTGDL FAAMLLAWTH KHPNNLKVAC EKTVSTLHHV LQRTIQCAKA QAGEGVRPSP MQLELRMVQS KRDIEDPEIV VQATVL

#### **General References**

Merrill AH Jr., et al. (1984) J Nutr. 114(9):1664-74. Hanna M C., et al. (1997) J Biol Chem. 272(16):10756-60.

# **DATA**





coomassie blue stain.

3ug by SDS-PAGE under reducing condition and visualized by

15% SDS-PAGE (3ug)