

**PDXK,1-312aa, Human, His tag, E.coli**

**Cat.NO.: TP03337**

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3th Edition

**Synonyms:**Pyridoxal kinase, PKH, PNK, PRED79, Pyridoxine kinase.

**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.

**Form:**Formulation Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

**Molecular Weight:**37.6 kDa (336aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAH  
WKGQVLNSDELQELYEGLRLNMMNKYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGS  
MYVPEDLLPVYKEKVVPLADIITPNQFEAELLSGRKIHSEALRVMDMLHSMGPDTVVITSSDLPSPPQGSNYLIVLG  
SQRRRNPAAGSVVMERIRMDIRKVDVAVFVGTGDLFAAMLLAWTHKHPNMLKVACEKTVSTLHHVLQRTIQCAKAQA  
GEGVRPSPMQLELRMVQSKRDIEDPEIVVQATVL

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.