

Recombinant Human Pyridoxal (Pyridoxine, Vitamin B6) Kinase, His-tagged

Cat. No. PDXK-2865H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PDXK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 37.6 kDa (336aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGSHEEEECR VLSIQSHVIR GYVGNRAATF PLQVLGFEID AVNSVQFSNH TGYAHWKQVQV LNSDELQELY EGLRLNNMNK YDYVLTGYTR DKSFLAMVVD IVQELKQQNP RLVYVCDPVL GDKWDGEGSM YVPEDLLPVY KEKVVPLADI ITPNQFEAEL LSGRKIHSQE EALRVMDMLH SMGPDTVVIT SSDLPSPQGS NYLIVLGSQR RRNPAGSVVM ERIRMDIRKV DAVFGTGD L FAAMLLAWTH KHPNNLKVAC EKTVSTLHHV LQRTIQCAKA QAGEGVRPSP MQLELRMVQS KRDIEDPEIV VQATVL
Purity	> 90% by SDS – PAGE.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	PDXK pyridoxal (pyridoxine, vitamin B6) kinase [Homo sapiens]
Synonyms	PDXK; pyridoxal (pyridoxine, vitamin B6) kinase; C21orf124; C21orf97; EC 2.7.1.35; DKFZp566A071; FLJ31940; FLJ37311; FLJ21324; MGC15873; MGC31754; MGC52346; PKH; PNK; PRED79; pyridoxal kinase; pyridoxamine kinase; pyridoxine kinase; vitamin B6 kinase; chromosome 21 open reading reame 124; chromosome 21 open reading frame 97
Gene ID	8566
mRNA Refseq	NM_003681
Protein Refseq	NP_003672
MIM	179020
UniProt ID	O00764
Chromosome Location	21q22.3
Pathway	Metabolic pathways; Vitamin B6 metabolism

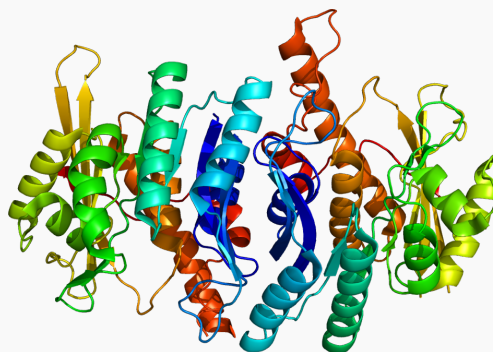
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Function

ATP binding; lithium ion binding; magnesium ion binding; nucleotide binding; potassium ion binding; protein homodimerization activity; pyridoxal kinase activity; sodium ion binding; transferase activity; zinc ion binding



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