

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
 DAVFVGTGDL 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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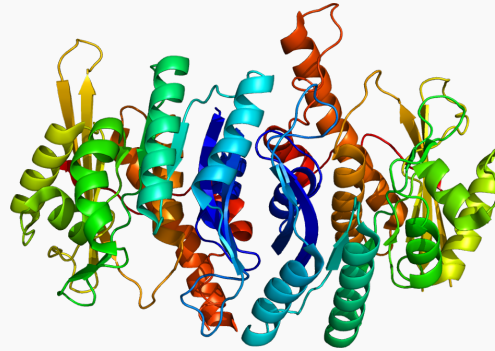
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Function

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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