

Recombinant Human PDXK, His-tagged

Cat. No. PDXK-29673TH **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------|---|
| Product Overview | Recombinant full length Human PDXK.1 with N terminal His tag; 336 amino acids with tag, Predicted MWt 37.6 kDa. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 312 amino acids |
| Description | The protein encoded by this gene phosphorylates vitamin B6, a step required for the conversion of vitamin B6 to pyridoxal-5-phosphate, an important cofactor in intermediary metabolism. 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. |
| Conjugation | HIS |
| Molecular Weight | 37.600kDa inclusive of tags |
| Tissue specificity | Ubiquitous. Isoform 3 is detected in adult testis and spermatozoa. |
| Form | Liquid |
| Purity | >90% by SDS-PAGE |

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|---------------------------------|---|
| Storage buffer | Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0 |
| Storage | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| Sequences of amino acids | MGSSHHHHHSSGLVPRGSHMGSHMEEECRVLSIQSHVIRGYVGNRAATFPLQVL GFEIDAVNSVQFSNHTGYAHWKQVLSDELQELYEGLRLNMMNKYDYVLTGYTR DKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVP LADIITPNQFEAELLSGRKIHQSQEEALRVMDMLHSMGPDVVITSSDLPSPQGSNYLI VLGSQRRRNPAAGSVVMERIRMDIRKVDVAVFVGTGDLFAAMLLAWTHKHPNNLKVAC EKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDIEDPEIVVQATVL |
| Sequence Similarities | Belongs to the pyridoxine kinase family. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | PDXK pyridoxal (pyridoxine, vitamin B6) kinase [Homo sapiens] |
| Official Symbol | PDXK |
| Synonyms | PDXK; pyridoxal (pyridoxine, vitamin B6) kinase; C21orf97, C21orf124, chromosome 21 open reading frame 97 , chromosome 21 open reading frame 124; pyridoxal kinase; FLJ21324; FLJ31940; MGC15873; PKH; PNK; PRED79; |
| Gene ID | 8566 |
| mRNA Refseq | NM_003681 |
| Protein Refseq | NP_003672 |

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|----------------------------|---|
| MIM | 179020 |
| Uniprot ID | O00764 |
| Chromosome Location | 21q22.3 |
| Pathway | Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Vitamin B6 metabolism, organism-specific biosystem; |
| Function | ATP binding; lithium ion binding; magnesium ion binding; nucleotide binding; potassium ion binding; |

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