

# Recombinant Human PDXK Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PDXK-4506H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PDXK MS Standard C13 and N15-labeled recombinant protein (NP_003672) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 35.1 kDa                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKGQV<br>LNSDELQELYEGLRLNNMNKYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVC<br>DPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPNQFEALLSGRKIHSQEEAL<br>RVMDMLHSMGPDTVVITSSDLPSQGSNYLIVLGSQRRRNPAGSVVMERIRMDIRK<br>VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEG<br>VRPSPMQLELRMVQSKRDIEDPEIVVQATVLTTRTRPLEQKLISEEDLAANDILDYKDD<br>DDKV      |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                         |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

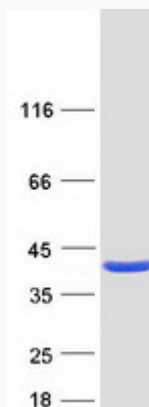
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PDXK pyridoxal kinase [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | PDXK                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | 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; pyridoxine kinase; vitamin B6 kinase; pyridoxamine kinase; C21orf97; C21orf124; FLJ37311; MGC31754; MGC52346; DKFZp566A071; |
| <b>Gene ID</b>         | 8566                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_003681                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_003672                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>             | 179020                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | O00764                                                                                                                                                                                                                                                                                                                                         |

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**SDS-PAGE**

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