

# Recombinant Human PDK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PDK1-6460H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | PDK1 MS Standard C13 and N15-labeled recombinant protein (NP_002601) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. |
| <b>Molecular Mass</b>   | 49.2 kDa   |
| <b>AA Sequence</b>      | MRLARLLRGAALAGPGPLRAAGFSRSFSSDSGSSPASERGVPGQVDFYARFSPS<br>PLSMKQFLDFGSVNACEKTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQS<br>WYIQLQELLDFKDKSAEDAKAIYDFTDTVIRIRNRHNDVIPTMAQGVIEYKESFGVD<br>PVTSQNVQYFLDRFYMSRISIRMLLNQHSLLFGGKGGKSPSHRKHIGSINPNCNVLE<br>VIKDGyenARRLCDLYYINSPELELEELNAKSPGQPIQVVVYVPSHLYHMFELFKNAM<br>RATMEHHANRGVYPPIQVHVTLGNEDLTVKMSDRGGGVPLRKIDRLFNMYSTAPR<br>PRVETSRAVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTDSIERL  |

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PVYNKAAWKHYNTNHEADDWCVPSREPKDMTTFRSATRTRPLEQKLISEEDLAAND  
ILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** PDK1 pyruvate dehydrogenase kinase 1 [ Homo sapiens (human) ]

**Official Symbol** PDK1

**Synonyms** PDK1; pyruvate dehydrogenase kinase, isozyme 1; pyruvate dehydrogenase kinase, isoenzyme 1; mitochondrial pyruvate dehydrogenase, lipoamide, kinase isoenzyme 1;

**Gene ID** 5163

**mRNA Refseq** NM\_002610

**Protein Refseq** NP\_002601

**MIM** 602524

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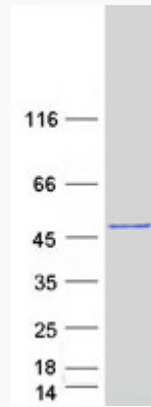
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UniProt ID

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SDS-PAGE



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