

Recombinant Human PDK3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDK3-5576H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDK3 MS Standard C13 and N15-labeled recombinant protein (NP_005382) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂. It provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle, and thus is one of the major enzymes responsible for the regulation of glucose metabolism. The enzymatic activity of PDH is regulated by a phosphorylation/dephosphorylation cycle, and phosphorylation results in inactivation of PDH. The protein encoded by this gene is one of the three pyruvate dehydrogenase kinases that inhibits the PDH complex by phosphorylation of the E1 alpha subunit. This gene is predominantly expressed in the heart and skeletal muscles. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	46.9 kDa
AA Sequence	MRLFRWLLKQVPVKQIERYSRFSPLSIKQFLDFGRDNACEKTSYMFRLRKELPVRL ANTMREVNLLPDNLLNRPSVGLVQSWYMQSFLELLEYENKSPEDPQVLDNFLQVLIK VRNRHNDVVPTMAQGVIEYKEKFGFDPFISTNIQYFLDRFYTNRISFRMLINQHTLLF

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GGDTNPVHPKHIGSIDPTCNVADVVKDAYETAKMLCEQYYLVAPELEVVEEFNAKAPD
KPIQVVYVPSHLFHMFLFELFKNSMRATVELYEDRKEGYPAVKTLVTLGKEDLSIKISD
LGGGVPLRKIDRLFNYMYSTAPRPSLEPTRAAPLAGFGYGLPISRLYARYFQGDLKL
YSMEGVGTDAAVIYLLKALSSESFERLPVFNKSARWHYKTTPEADDWSNPSSSEPRDAS
KYKAKQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	PDK3 pyruvate dehydrogenase kinase 3 [Homo sapiens (human)]
Official Symbol	PDK3
Synonyms	PDK3; pyruvate dehydrogenase kinase, isozyme 3; pyruvate dehydrogenase kinase, isoenzyme 3; pyruvate dehydrogenase, lipamide, kinase isozyme 3, mitochondrial;
Gene ID	5165
mRNA Refseq	NM_005391
Protein Refseq	NP_005382

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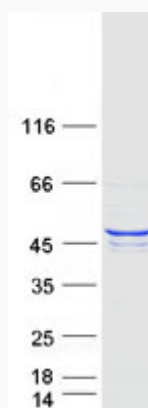
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MIM 602526

UniProt ID Q15120

SDS-PAGE



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