

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 CO ₂ . 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	MRLFRWLLKQPVPKQIERYSRFSPLSIKQFLDFGRDNACEKTSYMFRLRKELPVRL ANTMREVNLLPDNLLNRPSVGLVQSWYMQSFLELLEYENKSPEDPQVLDNLFQVLIK VRNRHNDVVPTMAQGVIEYKEKFGFDPFISTNIQYFLDRFYTNRISFRMLINQHTLLF

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GGDTNPVHPKHIGSIDPTCNVADVVKDAYETAKMLCEQYYLVAPELEVVEEFNAKAPD
 KPIQVVVYVPSHLFHMLFELFKNSMRATVELYEDRKEGYPAVKTLVTLGKEDLSIKISD
 LGGGVPLRKIDRLFNYMYSTAPRPSLEPTRAAPLAGFGYGLPISRLYARYFQGDLKL
 YSMEGVGTDAVIYLKALSSESFERLPVFNKSAWRHYKTTPEADDWSNPSSSEPRDAS
 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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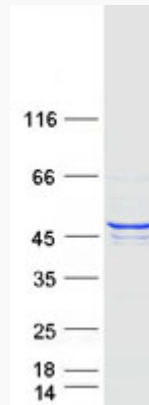
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MIM 602526

UniProt ID Q15120

SDS-PAGE



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