

Active Recombinant Human PDK3, GST-tagged

Cat. No. PDK3-1072H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PDHK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
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.?
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	12 nmol/min/mg

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Molecular Mass	~69 kDa
Purity	>90%
Applications	Kinase Assay; Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	PDK3 pyruvate dehydrogenase kinase, isozyme 3 [Homo sapiens]
Official Symbol	PDK3
Synonyms	PDK3; pyruvate dehydrogenase kinase, isozyme 3; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial; pyruvate dehydrogenase kinase, isoenzyme 3; pyruvate dehydrogenase, lipoamide, kinase isozyme 3, mitochondrial; EC 2.7.11.2
Gene ID	5165
mRNA Refseq	NM_005391
Protein Refseq	NP_005382

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MIM	300906
UniProt ID	Q15120
Chromosome Location	Xp22.11
Pathway	Metabolism; Pyruvate metabolism and Citric Acid (TCA) cycle; Regulation of pyruvate dehydrogenase (PDH) complex
Function	ATP binding; protein binding; protein serine/threonine kinase activity

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