

Active Recombinant Human PDK1 Protein, GST-tagged

Cat. No. PDK1-124H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PDHK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect cells
Description	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.
Bio-activity	1.7 nmol/min/mg
Molecular Mass	~70 kDa
Purity	>95%
Stability	One year at -70 centigrade from the date of shipment.
Storage	Store product at -70 centigrade. 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.

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Concentration 0.1 µg/µL

Storage Buffer Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

GENE INFORMATION

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

Official Symbol PDK1

Synonyms PDK1; pyruvate dehydrogenase kinase 1; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial; pyruvate dehydrogenase (acetyl-transferring) kinase isozyme 1, mitochondrial; PDH kinase 1; mitochondrial pyruvate dehydrogenase, lipoamide, kinase isoenzyme 1; pyruvate dehydrogenase kinase, isoenzyme 1; EC 2.7.11.2

Gene ID 5163

mRNA Refseq NM_002610

Protein Refseq NP_002601

MIM 602524

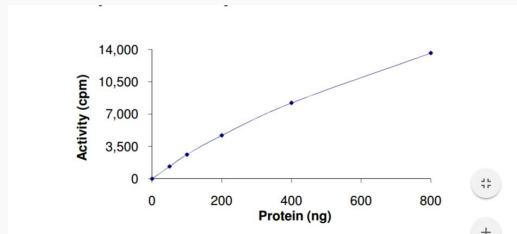
UniProt ID Q15118

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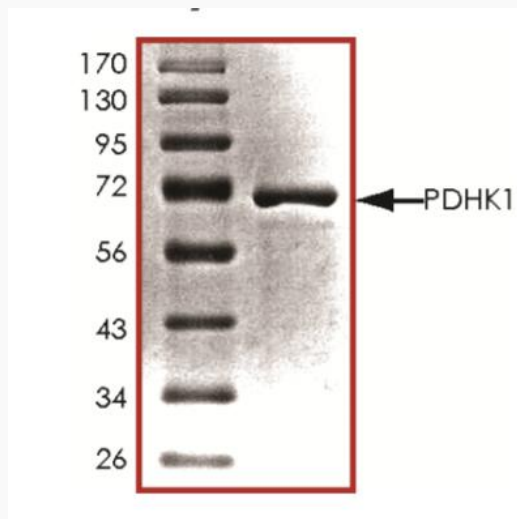
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Specific Activity



The specific activity of PDK1 was determined to be 1.7 nmol/min/mg as per activity assay protocol.

Purity



The purity of PDK1 was determined to be >95% by densitometry.

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