

Recombinant Mouse Pdk1 Protein, Myc/DDK-tagged

Cat. No. Pdk1-4766M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through the tricarboxylic acid cycle, down-regulates aerobic respiration and inhibits the formation of acetyl-coenzyme A from pyruvate. Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia. Protects cells against apoptosis in response to hypoxia and oxidative stress.
Molecular Mass	48.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Pdk1 pyruvate dehydrogenase kinase, isoenzyme 1 [Mus musculus (house mouse)]

Official Symbol Pdk1

Synonyms PDK1; pyruvate dehydrogenase kinase, isoenzyme 1; pyruvate dehydrogenase kinase, isozyme 1; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1, mitochondrial; B830012B01; D530020C15Rik

Gene ID 228026

mRNA Refseq NM_172665

Protein Refseq NP_766253

UniProt ID Q8BFP9

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