

## Recombinant Mouse Pdk1 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	48.8 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method

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**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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