

Recombinant Mouse Pdk3 Protein, Myc/DDK-tagged

Cat. No. Pdk3-4768M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pyruvate dehydrogenase kinase, isoenzyme 3 (Pdk3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit PDHA1, and thereby regulates glucose metabolism and aerobic respiration. Can also phosphorylate PDHA2. Decreases glucose utilization and increases fat metabolism in response to prolonged fasting, and as adaptation to a high-fat diet. Plays a role in glucose homeostasis and in maintaining normal blood glucose levels in function of nutrient levels and under starvation. Plays a role in the generation of reactive oxygen species.
Molecular Mass	47.9 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 Pdk3 pyruvate dehydrogenase kinase, isoenzyme 3 [*Mus musculus* (house mouse)]

Official Symbol Pdk3

Synonyms PDK3; pyruvate dehydrogenase kinase, isoenzyme 3; pyruvate dehydrogenase kinase, isozyme 3; pyruvate dehydrogenase kinase 3; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial; AI035637; MGC6383; 2610001M10Rik

Gene ID 236900

mRNA Refseq NM_145630

Protein Refseq NP_663605

UniProt ID Q922H2

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