

[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial (Pdk4), partial Recombinant Protein | Pdk4 recombinant protein

Recombinant Mouse [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial (Pdk4), partial

CATALOG # AAA115788	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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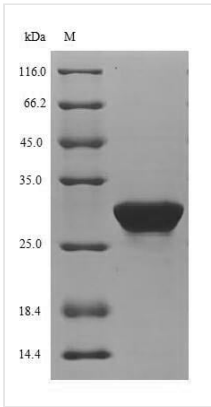
PRODUCT SYNONYMS

[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4; mitochondrial (Pdk4); partial; Recombinant Mouse [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4; mitochondrial; EC=2.7.11.2; Pyruvate dehydrogenase kinase isoform 4; Pdk4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	138-368aa; Partial
Sequence	ILEYKDTCTV DPVTNQNLQY FLDRFYMNRI STRMLMNQHI LIFSOSKTGN PSHIGSIDPN CDVVAVVQDA FECAKMLCDQ YYLTSPENL TQVNGKFPGQ PIHIVYVPSH LHHMLFELFK NAMRATVEHQ ENRPSLTPVE ATVVLGKEDL TIKISDRGGG VPLRITDRLF SYTYSTAPT VMDNSRNAPL AGFGYGLPIS RLYAKYFQGD LNLYMSGYG TDAIYLKAL S
Sequence Length	368
Species	Mus musculus (Mouse)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Pdk4 recombinant protein	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. Inhibition of pyruvate dehydrogenase decreases glucose utilization and increases fat metabolism in response to prolonged fasting and starvation. Plays an important role in maintaining normal blood glucose levels under starvation, and is involved in the insulin signaling cascade. Via its regulation of pyruvate dehydrogenase activity, plays an important role in maintaining normal blood pH and in preventing the accumulation of ketone bodies under starvation. In the fed state, mediates cellular responses to glucose levels and to a high-fat diet. Regulates both fatty acid oxidation and de novo fatty acid biosynthesis. Plays a role in the generation of reactive oxygen species. Protects detached epithelial cells against anoikis. Plays a role in cell proliferation via its role in regulating carbohydrate and fatty acid metabolism
Product Categories/Family for Pdk4 recombinant protein	Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	7305375
NCBI GeneID	27273
NCBI Accession #	NP_038771.1
NCBI GenBank Nucleotide #	NM_013743.2
UniProt Accession #	O70571
Molecular Weight	30.0 kDa
NCBI Official Full Name	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase, isoenzyme 4
NCBI Official Symbol	Pdk4
NCBI Official Synonym Symbols	AV005916
NCBI Protein Information	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial; pyruvate dehydrogenase kinase 4; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial
UniProt Protein Name	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial
UniProt Gene Name	Pdk4
UniProt Entry Name	PDK4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pdk4-recombinant-protein-e-coli/115788>