



Recombinant Mouse [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial (Pdk3), partial

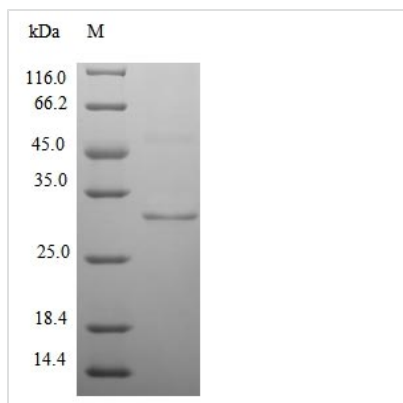
Product Code	CSB-EP852852MO
Relevance	Inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit PDHA1, and thereby regulates glucose metabolism and aerobic respiration. Can also phosphorylate PDHA2. Decreases glucose utilization and increases fat metabolism in response to prolonged 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
Abbreviation	Recombinant Mouse Pdk3 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q922H2
Alias	Pyruvate dehydrogenase kinase isoform 3
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	IEYKEKFGFDPFISSNIQYFLDRFYTNRISFRMLINQHTLLFGGDTNPAHPKHIGS IDPTCNVADVVKDAYETAKMLCEQYYLVAPELEVEEFNAKAPNKP IQVVYVPS HLFHMLFELFKNSMRATVELHEDKKEGYPAVKTLVTLGKEDLSIKISDLGGGVP LRKIDRLFNYMYSTAPRPSLEPTRAAPLAGFGYGLPISRLYARYFQGDLKLYSM EGVGTD AVIY LKALS
Research Area	Signal Transduction
Source	E.coli
Target Names	Pdk3
Protein Names	Recommended name: [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial EC= 2.7.11.2 Alternative name(s): Pyruvate dehydrogenase kinase isoform 3
Expression Region	131-362aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	30.3kDa



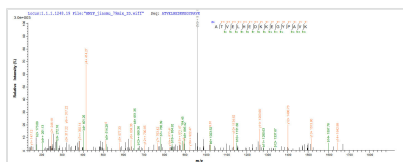
Protein Length

Partial

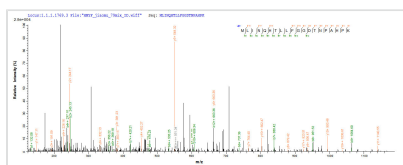
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP852852MO could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Pdk3.



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Description

Discover our Recombinant Mouse Pdk3, a meticulously engineered protein designed to support signal transduction research in mouse models. This product features the pyruvate dehydrogenase (acetyl-transferring) kinase isozyme 3, a mitochondrial protein that plays a vital role in the regulation of pyruvate dehydrogenase complex activity. Our protein offering focuses on a partial region of Pdk3 with an expression region of 131-362aa, ensuring optimal performance and consistency for your research needs.

Derived from an E. coli expression system, our Mouse Pdk3 protein is fused with an N-terminal 6xHis tag, allowing for efficient purification and detection processes. With a purity greater than 90% as determined by SDS-PAGE, our recombinant protein is available in both liquid and lyophilized powder forms to cater to various experimental requirements. Rely on our precision-crafted Recombinant Mouse Pdk3 to deliver consistent and dependable results for your signal transduction research projects.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.



Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.