



Recombinant Mouse [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial (Pdk1)

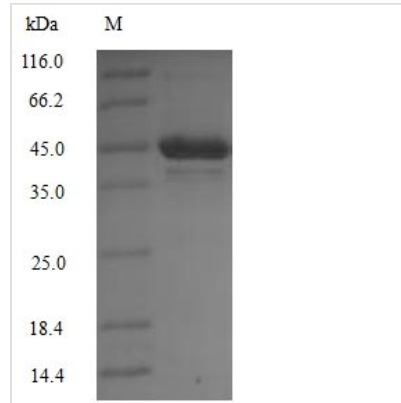
Product Code	CSB-BP807321MO
Relevance	Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through 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
Abbreviation	Recombinant Mouse Pdk1 protein
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.	Q8BFP9
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	ASASASGSGPASELGVPGQVDFYARFSPSPLSMKQFLDFGSVNACEKTSFMF LRQELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQLQELLDFKDKSAEDA KTIYEFTDTVIRIRNRHNDVIPTMAQGVTEYKESFGVDPVTSQNVQYFLDRFYM SRISIRMLLNQHSLFLGGKGSPPSHRKHIGSINPCDVEVIKDGYENARRLCDL YYVNSPELELEELNAKSPGQTIQVVVYVPSHLYHMFELFKNAMRATMEHHADK GVYPPIQVHVTLGEEDLTVKMSDRGGGVPLRKIDRLFNYMYSTAPRPRVETSR AVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTESVERLPVY NKAAWKHYSKANHEADDWCVPSREPKDMTTFRSS
Research Area	Signal Transduction
Source	Baculovirus
Target Names	Pdk1
Protein Names	Pyruvate dehydrogenase kinase isoform 1
Expression Region	27-434aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged



Mol. Weight 48.7kDa

Protein Length Full Length of Mature Protein

Image



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

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

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