

PDK1 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Pdk1;Pyruvate dehydrogenase kinase isoform 1 (PDH kinase 1);[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial;mitochondrial
Protein Construction:	27-434 aa
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	Q8BFP9
Molecular Weight:	48.7 kDa (predicted)
AA Sequence:	ASASASGSGPASELGVPGQVDFYARFSPSPLSMKQFLDFGSVNACEKTSFMFLRQELPVRLANIMKEISLLPD NLLRTPSVQLVQSWYIQSLQELLDFKDKSAEDAktiYEFTDTVIRIRNRHNDVIPTMAQGVTEYKESFGVDPVT SQNVQYFLDRFYMSRISIRMLLNQHSLLFGGKGSPSHRKHIGSINPNCDEVVEVIKDGyenARRLCDLYYVNSP ELELEELNAKSPGQTIQVYVYPSHLYHMFELFKNAMRATMEHHADKGVYPPIQVHVTLGEEDLTVKMSDRG GGVPLRKIDRLFNYMYSTAPRPRVETSRAVPLAGFGYGLPISRLYAQYFQGDLLKLYSLEGYGTDAVIYIKALSTE SVERLPVYNKAAWKHYKANHEADDWCVPSREPKDMTFRSS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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