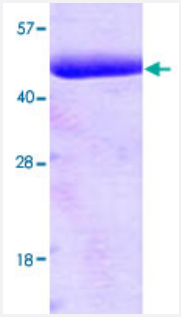
PDK1 (Human) Recombinant Protein

Catalog # P3527 Size 100 ug

Applications



Specification

Product Description	Human PDK1 (NP_002601, 29 a.a. - 436 a.a.) partial recombinant protein expressed in *Escherichia coli*. with His tag expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMSSDSGSSPASERGVPGQVDFYARFSPSPLSMKQFLDFGSVN ACEKTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQSLQELLDFKDKSAEDAKAIY DFTDTVIRIRNRHNDVIPTMAQGVIEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQHSLLFGG KGKGSPSHRKHIGSINPNCNVLEVIKDGYENARRLCDLYYINSPELELEELNAKSPGQPIQVVYVPS HLYHMVFELFKNAMRATMEHHANRGVYPPIQVHVTLGNEDLTVKMSDRGGGVPLRKIDRLFNYMY STAPRPRVETSRAVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTDSIERLPVYN KAAWKHYNTNHEADDWCVPSREPKDMTTFRSA
Host	Escherichia coli
Theoretical MW (kDa)	48.6
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	Conventional Chromatography
Concentration	0.5 mg/mL
Purity	> 95% by SDS-PAGE

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Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, 100 mM NaCl, 0.1 mM EDTA, 1 mM MgCl2, pH 7.0 (0.5 mM DTT, 40% glycerol, 0.1 mM PMSF).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — PDK1

Entrez GeneID	5163
Protein Accession#	NP_002601
Gene Name	PDK1
Gene Alias	-
Gene Description	pyruvate dehydrogenase kinase, isozyme 1
Omim ID	602524
Gene Ontology	Hyperlink
Gene Summary	Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. [provided by RefSeq
Other Designations	mitochondrial pyruvate dehydrogenase kinase isoenzyme 1|pyruvate dehydrogenase kinase, isoenzyme 1

Pathway

- Fc epsilon RI signaling pathway
- Neurotrophin signaling pathway
- T cell receptor signaling pathway

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Disease

- Diabetes Mellitus
- Genetic Predisposition to Disease

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