

Full-Length

PDK1 (Human) Recombinant Protein (P01)

Catalog # H00005163-P01

Size 50 ug

Specification

Product Description	Human PDK1 full-length ORF (AAH39158.1, 1 a.a. - 436 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRLARLLRGAALAGPGPLRAAGFSRSFSSDSGSSPASERGVPGQVDFYARFSPSPLSMKQFL DFGSVNACEKTSFMFLRQELPVR LANIMKEISLLPDNLLRTPSVQLVQSWYQSLQELDFKDKSA EDAKAYDFTDTVIRNRHNDVIPTMAQGVIEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQ HSLLFGGKKGKSPSHRKHIGSINPNCNVLEVIKDGYNARRLCDLYINSPELELEELNAKSPGQPI QVVYVPSHLYHMFELFKNAMRATMEHHANRGVYPPIQVHVTLGNEDLTVKMSDRGGGVPLRKI DRLFNMYSTAPRPRVETSRAVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYKALSTD SIERLPVYNKA AWKHYNTNHEADDWCVPSREPKDMTTFRSA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	75.6
Interspecies Antigen Sequence	Mouse (92); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)

- Antibody Production
- Protein Array

Gene Info — PDK1

Entrez GeneID [5163](#)

GeneBank Accession# [BC039158.1](#)

Protein Accession# [AAH39158.1](#)

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](#)

Disease

- [Diabetes Mellitus](#)

- [Genetic Predisposition to Disease](#)