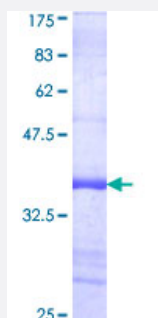


PDK1 (Human) Recombinant Protein (Q01)

Catalog # H00005163-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PDK1 partial ORF (AAH39158, 203 a.a. - 302 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GGKGGKGSPPSHRKHIGSINPNCNVLEVIKDGYNARRLCDLYINSPELELEELNAKSPGQPIQVVYV PSHLYHMFELFKNAMRATMEHHANRGVYPPIQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (94); Rat (96)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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](#)

Protein Accession# [AAH39158](#)

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

Publication Reference

- [Activation of 3-phosphoinositide-dependent kinase 1 \(PDK1\) and serum- and glucocorticoid-induced protein kinase 1 \(SGK1\) by short-chain sphingolipid C4-ceramide rescues the trafficking defect of \$\Delta\$ F508-cystic fibrosis transmembrane conductance regulator \(\$\Delta\$ F508-CFTR\).](#)

Caohuy H, Yang Q, Eudy Y, Ha TA, Xu AE, Glover M, Frizzell RA, Jozwik C, Pollard HB.

The Journal of Biological Chemistry 2014 Dec; 289(52):35953.

Application: KA, Recombinant protein

Pathway

- [Fc epsilon RI signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [T cell receptor signaling pathway](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)