

Recombinant Human PDK1, His-tagged

Cat. No. PDK1-30240TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Mitochondrial Pyruvate dehydrogenase kinase 1 with His tag.
Species	Human
ProteinLength	408 amino acids
Description	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.
Conjugation	HIS
Tissue specificity	Expressed predominantly in the heart.
Form	Liquid
Storage buffer	pH: 7.50 Constituents: 0.14% Sodium phosphate, 1.46% Sodium chloride, 30% Glycerol, 0.08% DTT, 0.02% EDTA, 0.05% Triton-X-100
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequence Similarities Belongs to the PDK/BCKDK protein kinase family.Contains 1 histidine kinase domain.

GENE INFORMATION

Gene Name	PDK1 pyruvate dehydrogenase kinase, isozyme 1 [Homo sapiens]
Official Symbol	PDK1
Synonyms	PDK1; pyruvate dehydrogenase kinase, isozyme 1; pyruvate dehydrogenase kinase, isoenzyme 1;
Gene ID	5163
mRNA Refseq	NM_002610
Protein Refseq	NP_002601
MIM	602524
Uniprot ID	Q15118
Chromosome Location	2q31.1
Pathway	EPO Receptor Signaling, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, conserved biosystem; Hepatitis C, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein complex binding; protein heterodimerization activity; protein homodimerization activity;

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