

Recombinant Human PDK4, His-tagged

Cat. No. PDK4-29137TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDK4 with His tag..
Species	Human
Source	E.coli
ProteinLength	401 amino acids
Description	This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin.
Conjugation	HIS
Tissue specificity	Ubiquitous; highest levels of expression in heart and skeletal muscle.
Biological activity	Suppl ans:T7 promoter-driven (pET, Novagen) IPTG-inducible E. coli expression system.PDK4 was purified by metal chelation column chromatography (Ni-IDA) using His.Bind Columns (Novagen).PDK4 activity was measured in a serial dilution of the recombinant pr
Form	Liquid

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Storage buffer	pH: 7.50Constituents: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.
Sequence Similarities	Belongs to the PDK/BCKDK protein kinase family.Contains 1 histidine kinase domain.
GENE INFORMATION	
Gene Name	PDK4 pyruvate dehydrogenase kinase, isozyme 4 [Homo sapiens]
Official Symbol	PDK4
Synonyms	PDK4; pyruvate dehydrogenase kinase, isozyme 4; pyruvate dehydrogenase kinase, isoenzyme 4;
Gene ID	5166
mRNA Refseq	NM_002612
Protein Refseq	NP_002603
MIM	602527
Uniprot ID	Q16654
Chromosome Location	7q21.3-q22.1
Pathway	Metabolism, organism-specific biosystem; Pyruvate metabolism, organism-specific

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biosystem; Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific biosystem; Regulation of pyruvate dehydrogenase (PDH) complex, organism-specific biosystem; TCA Cycle, organism-specific biosystem;

Function

ATP binding; nucleotide binding; protein kinase activity; pyruvate dehydrogenase (acetyl-transferring) kinase activity; transferase activity;

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