

## Recombinant Human PDK4, His-tagged

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

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant full length Human PDK4 with His tag..  |
| <b>Species</b>             | Human  |
| <b>Source</b>              | E.coli   |
| <b>ProteinLength</b>       | 401 amino acids  |
| <b>Description</b>         | 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. |
| <b>Conjugation</b>         | HIS  |
| <b>Tissue specificity</b>  | Ubiquitous; highest levels of expression in heart and skeletal muscle.   |
| <b>Biological activity</b> | 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  |
| <b>Form</b>                | Liquid   |

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|                              |  |
|------------------------------|--|
| <b>Storage buffer</b>        | pH: 7.50<br>Constituents: 0.14% Sodium phosphate, 1.46% Sodium chloride, 30% Glycerol, 0.08% DTT, 0.02% EDTA, 0.05% Triton-X-100 |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.  |
| <b>Sequence Similarities</b> | Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.  |
| <b>GENE INFORMATION</b>      |  |
| <b>Gene Name</b>             | PDK4 pyruvate dehydrogenase kinase, isozyme 4 [ Homo sapiens ]   |
| <b>Official Symbol</b>       | PDK4   |
| <b>Synonyms</b>              | PDK4; pyruvate dehydrogenase kinase, isozyme 4; pyruvate dehydrogenase kinase, isoenzyme 4;                                      |
| <b>Gene ID</b>               | 5166   |
| <b>mRNA Refseq</b>           | NM_002612  |
| <b>Protein Refseq</b>        | NP_002603  |
| <b>MIM</b>                   | 602527   |
| <b>Uniprot ID</b>            | Q16654   |
| <b>Chromosome Location</b>   | 7q21.3-q22.1   |
| <b>Pathway</b>               | 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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