

## Recombinant Human PDK3, His-tagged

**Cat. No.** PDK3-652H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human PDK3 with a His tag is expressed in <i>Bacteria</i> and column-purified.                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | PDH kinases (PDK"s) deactivate PDH by reversible phosphorylation. In humans and rodents, 4 PDK"s are present in an organ-dependent manner. In all cases, PDK"s are physically part of the PDH complex (binding via lipoyl domain 2 of E2), and they phosphorylate the E1 subunit at 3 specific serine residues. PDH phosphatases remove the phosphorylation and restore activity of PDH. |
| <b>Storage</b>          | Store at -80°C.                                                                                                                                                                                                                                                                                                                                                                          |

### GENE INFORMATION

|                  |                                                                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b> | PDK3 pyruvate dehydrogenase kinase, isozyme 3 [ <i>Homo sapiens</i> ]                                                                                                                                                                             |
| <b>Synonyms</b>  | PDK3; pyruvate dehydrogenase kinase, isozyme 3; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial; pyruvate dehydrogenase kinase, isoenzyme 3; pyruvate dehydrogenase, lipoamide, kinase isozyme 3, mitochondrial; EC 2.7.11.2 |
| <b>Gene ID</b>   | 5165                                                                                                                                                                                                                                              |

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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>                  | <a href="#">NM_001142386</a>                                                                                                                                                                                               |
| <b>Protein Refseq</b>               | <a href="#">NP_001135858</a>                                                                                                                                                                                               |
| <b>MIM</b>                          | <a href="#">602526</a>                                                                                                                                                                                                     |
| <b>UniProt ID</b>                   | <a href="#">Q15120</a>                                                                                                                                                                                                     |
| <b>Chromosome Location</b>          | Xp22.11                                                                                                                                                                                                                    |
| <b>Pathway</b>                      | Integration of energy metabolism; Pyruvate metabolism and Citric Acid (TCA) cycle                                                                                                                                          |
| <b>Function</b>                     | ATP binding; nucleotide binding; protein heterodimerization activity; pyruvate dehydrogenase (acetyl-transferring) kinase activity; protein homodimerization activity; transferase activity; two-component sensor activity |
| <b>PDB rendering based on 1y8n.</b> |                                                                                                                                        |