

# Recombinant Human PDP1, His-tagged

**Cat. No.** PDP1-698H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PDP1 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> | PDP1 pyruvate dehydrogenase phosphatase catalytic subunit 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>  | PDP1; pyruvate dehydrogenase phosphatase catalytic subunit 1; PDP 1; PDPC 1; [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial; protein phosphatase 2C, magnesium-dependent, catalytic subunit; pyruvate dehydrogenase (Lipoamide) phosphatase-phosphatase; pyruvate dehydrogenase phosphatase catalytic subunit 1; PDH; PDP; PDPC; PPM2C; FLJ32517; FLJ56179; MGC119646; EC 3.1.3.43 |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 54704                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_001161778                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001155250                                                                                                                                                                                   |
| <b>MIM</b>                 | 605993                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q9P0J1                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 8q22.1                                                                                                                                                                                         |
| <b>Pathway</b>             | Integration of energy metabolism; Pyruvate metabolism and Citric Acid (TCA) cycle                                                                                                              |
| <b>Function</b>            | [pyruvate dehydrogenase (lipoamide)] phosphatase activity; calcium ion binding; hydrolase activity; magnesium-dependent protein serine/threonine phosphatase activity; protein complex binding |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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