

Recombinant Human PDP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDP1-5982H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDP1 MS Standard C13 and N15-labeled recombinant protein (NP_060914) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase complex. Pyruvate dehydrogenase kinases catalyze phosphorylation of serine residues of E1 to inactivate the E1 component and inhibit the complex. Pyruvate dehydrogenase phosphatases catalyze the dephosphorylation and activation of the E1 component to reverse the effects of pyruvate dehydrogenase kinases. Pyruvate dehydrogenase phosphatase is a heterodimer consisting of catalytic and regulatory subunits. Two catalytic subunits have been reported; one is predominantly expressed in skeletal muscle and another one is much more abundant in the liver. The catalytic subunit, encoded by this gene, is the former, and belongs to the protein phosphatase 2C (PP2C) superfamily. Along with the pyruvate dehydrogenase complex and pyruvate dehydrogenase kinases, this enzyme is located in the mitochondrial matrix. Mutation in this gene causes pyruvate dehydrogenase phosphatase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Mass	61.1 kDa

 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

AA Sequence	MPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYIPQSRLRYTPHPAYATFCRP KENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKNVSSILGFDS NQLPANAPIEDRRSAATCLQTRGMLLGVFDPGHAGCACSQAVSERLFYYIAVSLLPHE TLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESTD IDVKEALINAFKRLDNDISLEAQVGDPSFLNYLVLRVAFSGATACVAHVDGVDLHVA NTGDSRAMLGVQEEDGSWSAVTLSNDHNAQNERELERLKLEHPKSEAKSVVKQDR LLGLLMPFRAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEP VTYHRLRPQDKFLVLATDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLG QMHGLLTERRTKMSSVFEDQNAATHLRHAVGNNEFGTVDHERLSKMLSLPEELAR MYRDDITIIVVQFNHVVGGAYQNQETRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PDP1 pyruvate dehydrogenase phosphatase catalytic subunit 1 [Homo sapiens (human)]
Official Symbol	PDP1
Synonyms	PDP1; pyruvate dehydrogenase phosphatase catalytic subunit 1; PPM2C, protein phosphatase 2C, magnesium dependent, catalytic subunit; [Pyruvate dehydrogenase

 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

[acetyl-transferring]]-phosphatase 1, mitochondrial; PDH; PDP; PDP 1; PDPC 1; pyruvate dehydrogenase phosphatase catalytic subunit 1; pyruvate dehydrogenase (Lipoamide) phosphatase-phosphatase; protein phosphatase 2C, magnesium-dependent, catalytic subunit; PDPC; PPM2C; FLJ32517; FLJ56179; MGC119646;

Gene ID [54704](#)

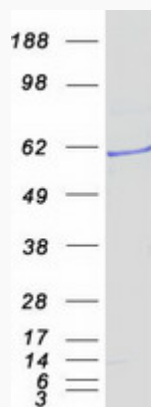
mRNA Refseq [NM_018444](#)

Protein Refseq [NP_060914](#)

MIM [605993](#)

UniProt ID [Q9P0J1](#)

SDS-PAGE



 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