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 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

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AA Sequence	MPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYIPQSRLRYTPHPAYATFCRP KENWWQYTQGRRYASTPQKFYLTPPQVNSILKANEYSFKVPEFDGKNVSSILGFDS NQLPANAPIEDRRSAATCLQTRGMLLGVFDGHAGCACSQAVSERLFYYIAVSLLPHE TLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFNSLRTYWQELIDLNTGESTD IDVKEALINAFKRLDNDISLEAQVGDPNSFLNYLVLRVAFSGATACVAHVDGVDLHVA NTGDSRAMLGVQEEDGSWSAVTLSNDHNAQNERELERLKLEHPKSEAKSVVKQDR LLGLLMPFRAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPE VTYHRLRPQDKFLVLATDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLG QMHGLLTERRTKMSSVFEDQNAATHLIRHAVGNNEFGTVDHERLSKMLSLPEELAR MYRDDITIIVVQFNSHVVGAYQNQETRTRPLEQKLISEEDLAANDILDYKDDDDKV
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 dehyrogenase phosphatase catalytic subunit 1 [Homo sapiens (human)]
Official Symbol	PDP1
Synonyms	PDP1; pyruvate dehyrogenase phosphatase catalytic subunit 1; PPM2C, protein phosphatase 2C, magnesium dependent, catalytic subunit; [Pyruvate dehydrogenase

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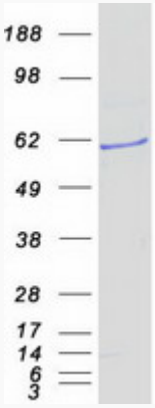
	[acetyl-transferring]]-phosphatase 1, mitochondrial; PDH; PDP; PDP 1; PDPC 1; pyruvate dehydrogenase phosphatase catalytic subunit 1; pyruvate dehydrogenase (Lipoamide) phosphatase-phosphatase; protein phosphatase 2C, magnesium-dependent, catalytic subunit; PDPC; PPM2C; FLJ32517; FLJ56179; MGC119646;
Gene ID	54704
mRNA Refseq	NM_018444
Protein Refseq	NP_060914
MIM	605993
UniProt ID	Q9P0J1
SDS-PAGE	

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