

## Product datasheet for TP328947

### PDP1 (NM\_001161781) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyruvate dehydrogenase phosphatase catalytic subunit 1 (PDP1), nuclear gene encoding mitochondrial protein, transcript variant 4, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC228947 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYIPQSRLRYTPHPAYATFCRPKENWWQYTQGRR  
YASTPQKFYLTTPPQVNSILKANEYSFKVPEFDGKNVSSILGFDSNQLPANAPIEDRRSAATCLQTRGMLL  
GVFDGHAGCACSQAVSERLFYYIAVSLPHETLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFN  
SLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNFLNYLVLRVAFSGATACVAHVD  
GVDLHVANTGDSRAMLGVQEEDGWSAVTSLNDHNAQNERELERLKHHPKSEAKSVKQDRLLGLLMPF  
RAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAPEVTYHRLRPQDKFLVLATDGL  
WETMHRQDWRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGNN  
EFGTVDHERLSKMLSLPEELARMYRDDITIIVVQFNHSHVVGAYQNQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

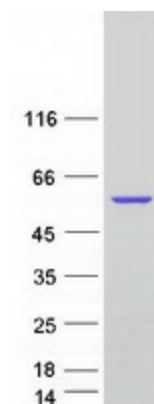
Tag:	C-Myc/DDK
Predicted MW:	60.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001155253</a>
<b>Locus ID:</b>	54704
<b>UniProt ID:</b>	<a href="#">Q9P0J1</a> , <a href="#">A0A024R9C0</a>
<b>RefSeq Size:</b>	4234
<b>Cytogenetics:</b>	8q22.1
<b>RefSeq ORF:</b>	1611
<b>Synonyms:</b>	PDH; PDP; PDPC; PPM2A; PPM2C
<b>Summary:</b>	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.[provided by RefSeq, Jun 2009]
<b>Protein Families:</b>	Druggable Genome, Phosphatase

### Product images:



Coomassie blue staining of purified PDP1 protein (Cat# TP328947). The protein was produced from HEK293T cells transfected with PDP1 cDNA clone (Cat# [RC228947]) using MegaTran 2.0 (Cat# [TT210002]).