

Product datasheet for PH308198

PDP1 (NM_018444) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PDP1 MS Standard C13 and N15-labeled recombinant protein (NP_060914)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208198
Predicted MW:	61.1 kDa
Protein Sequence:	>RC208198 protein sequence Red=Cloning site Green=Tags(s)

MPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYIPQSRLRYTPHPAYATFCRPKENWWQYTOGRR
YASTPQKFYLTPPQVNSILKANEYSFKVPEFDGKNVSSILGFDSNQLPANAPIEDRRSAATCLQTRGMLL
GVFDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFN
SLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNFLNYLVLRVAFSGATACVAHVD
GVDLHVANTGDSRAMLGVQEEDGSWSAVTLSDHNAQNERELERLKEHPKSEAKSVVKQDRLLGLLMPF
RAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAPEVTYHRLRPQDKFLVLA TDGL
WETMHRQDVVRIVGEYL TGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGNN
EFGTVDHERLSKMLSLPEELARMYRDDITIIIVQFNSHVVGAYQNQE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_060914
RefSeq Size:	4291
RefSeq ORF:	1611



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Synonyms: PDH; PDP; PDPC; PPM2A; PPM2C

Locus ID: 54704

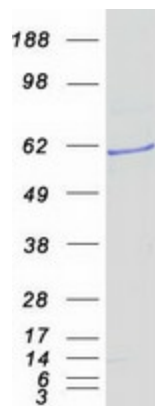
UniProt ID: [Q9P0J1](#), [A0A024R9C0](#)

Cytogenetics: 8q22.1

Summary: 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]

Protein Families: Druggable Genome, Phosphatase

Product images:



Coomassie blue staining of purified PDP1 protein (Cat# [TP308198]). The protein was produced from HEK293T cells transfected with PDP1 cDNA clone (Cat# [RC208198]) using MegaTran 2.0 (Cat# [TT210002]).