Recombinant Human [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial (PDP1)

Product Code	CSB-YP878946HU
Abbreviation	PDP1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9P0J1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	ASTPQKFYL TPPQVNSILK ANEYSFKVPE FDGKNVSSIL GFDSNQLPAN APIEDRRSAA TCLQTRGMLL GVFDGHAGCA CSQAVSERLF YYIAVSLLPH ETLLEIENAV ESGRALLPIL QWHKHPNDYF SKEASKLYFN SLRTYWQELI DLNTGESTDI DVKEALINAF KRLDNDISLE AQVGDPNSFL NYLVLRVAFS GATACVAHVD GVDLHVANTG DSRAMLGVQE EDGSWSAVTL SNDHNAQNER ELERLKLEHP KSEAKSVVKQ DRLLGLLMPF RAFGDVKFKW SIDLQKRVIE SGPDQLNDNE YTKFIPPNYH TPPYLTAEPE VTYHRLRPQD KFLVLATDGL WETMHRQDVV RIVGEYLTGM HHQQPIAVGG YKVTLGQMHG LLTERRTKMS SVFEDQNAAT HLIRHAVGNN EFGTVDHERL SKMLSLPEEL ARMYRDDITI IVVQFNSHVV GAYQNQE
Source	Yeast
Target Names	PDP1
Protein Names	Recommended name: [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial Short name= PDP 1 EC= 3.1.3.43 Alternative name(s): Protein phosphatase 2C Pyruvate dehydrogenase phosphatase catalytic subunit 1 S
Expression Region	72-537
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.