

Product datasheet for AR51757PU-N

OriGene Technologies, Inc.

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PDHX / PDX1 (54-501, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: PDHX / PDX1 (54-501, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSGDPIKIL MPSLSPTMEE GNIVKWLKKE GEAVSAGDAL CEIETDKAVV TLDASDDGIL AKIVVEEGSK NIRLGSLIGL IVEEGEDWKH VEIPKDVGPP PPVSKPSEPR

PSPEPQISIP VKKEHIPGTL RFRLSPAARN ILEKHSLDAS QGTATGPRGI FTKEDALKLV QLKQTGKITE SRPTPAPTAT PTAPSPLQAT AGPSYPRPVI PPVSTPGQPN AVGTFTEIPA SNIRRVIAKR LTESKSTVPH

AYATADCDLG AVLKVRQDLV KDDIKVSVND FIIKAAAVTL KQMPDVNVSW DGEGPKQLPF

IDISVAVATD KGLLTPIIKD AAAKGIQEIA DSVKALSKKA RDGKLLPEEY QGGSFSISNL GMFGIDEFTA VINPPQACIL AVGRFRPVLK LTEDEEGNAK LQQRQLITVT MSSDSRVVDD ELATRFLKSF KANLENPIRL

Α

Tag: His-tag

Predicted MW: 50.4 kDa

Concentration: lot specific

Purity: >85% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate buffer saline (pH 7.4) containing 20% glycerol, 1 mM DTT

Preparation: Liquid purified protein

Protein Description: Recombinant human PDHX protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001128496

Locus ID: 8050

UniProt ID: 000330





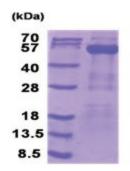
Cytogenetics: 11p13

Synonyms: DLDBP; E3BP; OPDX; PDHXD; PDX1; proX

Summary: The pyruvate dehydrogenase (PE

The pyruvate dehydrogenase (PDH) complex is located in the mitochondrial matrix and catalyzes the conversion of pyruvate to acetyl coenzyme A. The PDH complex thereby links glycolysis to Krebs cycle. The PDH complex contains three catalytic subunits, E1, E2, and E3, two regulatory subunits, E1 kinase and E1 phosphatase, and a non-catalytic subunit, E3 binding protein (E3BP). This gene encodes the E3 binding protein subunit; also known as component X of the pyruvate dehydrogenase complex. This protein tethers E3 dimers to the E2 core of the PDH complex. Defects in this gene are a cause of pyruvate dehydrogenase deficiency which results in neurological dysfunction and lactic acidosis in infancy and early childhood. This protein is also a minor antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009]

Product images:



15% SDS-PAGE (3ug)