

Recombinant human PDHX protein

Catalog Number: ATGP2937

PRODUCT INFORMATION

Expression system

E.coli

Domain

54-501aa

UniProt No.

O00330

NCBI Accession No.

NP_003468

Alternative Names

Pyruvate dehydrogenase protein X component mitochondrial, Pyruvate dehydrogenase protein X component, mitochondrial, DLDBP, E3BP, OPDX, PDX1, proX

PRODUCT SPECIFICATION

Molecular Weight

50.4 kDa (471aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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PDH complex. Recombinant human PDHX protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

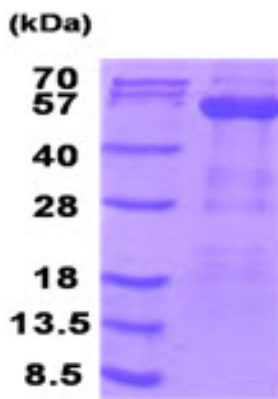
MGSSHHHHHH SGLVPRGSH MGSGDPIKIL MPSSLPTMEE GNIVKWLKKE GEAVSAGDAL CEIETDKAVV TLDASDDGIL
AKIVVEEGSK NIRLGLSLIGL IVEEGEDWKH VEIPKDVGPP PPVSKPSEPR PSPEPQISIP VKKEHIPGTL RFRLSPAARN
ILEKHSLDAS QGTATGPRGI FTKEDALKLV QLKQTGKITE SRPTPAPTAT PTAPSPLQAT AGPSYPRPVI PPVSTPGQPN
AVGTFTEIPA SNIRRVIAKR LTESKSTVPH AYATADCDLG AVLKVRQDLV KDDIKVSVND FIIKAAAVTL KQMPDVNVSW
DGEGPKQLPF IDISVAVATD KGLLTPIIKD AAKGIQEIA DSVKALSCKA RDGKLLPEEY QGGSFSISNL GMFGIDEFTA
VINPPQACIL AVGRFRPVLK LTEDEEGNAK LQQRQLITVT MSSDSRVVDD ELATRFLKSF KANLENPIRL A

General References

Aral B., et al. (1997) *Am. J. Hum. Genet.* 61:1318-1326
Hiromasa Y., et al. (2004) *J. Biol. Chem.* 279:6921-6933

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)