

PDHX, 54-501aa, Human, His tag, E.coli

Cat.NO.: TP03326

3th Edition

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

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 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.

Form:Liquid. In Phosphate buffer saline (pH 7.4) containing 20% glycerol, 1mM DTT

Molecular Weight:50.4 kDa (471aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSGDPIKILMPSLSPTMEEGNIVKWLKKEGEAVSAGDALCEIETDKAVVTLDASD
DGILAKIVVEEGSKNIRLGLSLIGLIVEEGEDWKHVEIPKDVGPPPPVSKPSEPRPSPEPQISIPVKEHIPGTLRFRLSP
AARNILEKHSLDASQGTATGPRGIFTKEDALKLVQLKQTGKITESRPTAPTATPTAPSPQLQATAGPSYPRPVIPPVS
TPGQPNAVGTTFTEIPASNIRRVIAKRLTESKSTVPHAYATADCDLGAVLKVRQDLVKDDIKVSVNDFIHKAAAVTLKQM
PDVNVSWDGEKQLPFIDISVAVATDKGLLTPIIKDAAAKGIQEIADSVKALSKKARDGKLLPEEYQGGFSISNLG
MFGIDEFTAVINPPQACILAVGRFRPVLKLTEDEEGNAKLQQRQLITVTMSSDSRVVDELATRFLKSFKANLENPIR
LA

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.