

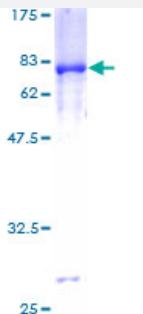
Full-Length

PDHA1 (Human) Recombinant Protein (P01)

Catalog # H00005160-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PDHA1 full-length ORF (AAH02406, 1 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRKMLAAVSRLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYY RMMQTVRMELKADQLYKQKIIRGFCHLCDGQEACVGLEAGINPTDHILITAYRAHGFTTRGLSV REILAEALTGRKGCGAKGKGGSMHYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGD GAANQQIFEAYNMAALWKLPCIFICENNRYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCV REATRFAAAYCRSGKGPILMELQTYRYHGHMSDPGVSYRTREEIQEVRSKSDPIMLLKDRMVNS NLASVEELKEIDVEVRKEIEDAAQFATADPEPPLLEELGYHISSDPPFEVRGANQWIKFKSVS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	68.64
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PDHA1

Entrez GenelID	5160
GeneBank Accession#	BC002406
Protein Accession#	AAH02406
Gene Name	PDHA1
Gene Alias	PDHA, PDHCE1A, PHE1A
Gene Description	pyruvate dehydrogenase (lipoamide) alpha 1
Omim ID	300502 308930 312170
Gene Ontology	Hyperlink
Gene Summary	The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT; MIM 608770) (E2; EC 2.3.1.12); and dihydrolipoyl dehydrogenase (DLD; MIM 238331) (E3; EC 1.8.1.4). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex (Brown et al., 1994 [PubMed 7853374]).[supplied by OMIM]
Other Designations	OTTHUMP00000023015 pyruvate dehydrogenase E1 alpha subunit

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Butanoate metabolism](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)