

# Recombinant Human PDHA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDHA1-1310H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	PDHA1 MS Standard C13 and N15-labeled recombinant protein (NP_000275) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO <sub>2</sub> , and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Molecular Mass</b>	43.3 kDa
<b>AA Sequence</b>	MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLT REDGLKYYRMMQTVRRMELKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDH

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LITAYRAHGFTFTRGLSVREILAEALTGRKGGCAKGGKGGSMHMYAKNFYGGNGIVGA  
 QVPLGAGIALACKYNGKDEVCLTLYGDGAANQQQIFEAYNMAALWKLPCIFICENNR  
 YGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAAYCRSGKGPILM  
 ELQTYRYHGHSMSPGVSYRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEID  
 VEVKIEIDAAQFATADPEPPLEELGYHIYSSDPPFEVIRGANQWIKFKSVSTRTRPL  
 EQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [PDHA1 pyruvate dehydrogenase E1 subunit alpha 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [PDHA1](#)

**Synonyms** PDHA1; pyruvate dehydrogenase (lipoamide) alpha 1; PDHA; pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial; PDHE1-A type I; pyruvate dehydrogenase complex, E1-alpha polypeptide 1; PHE1A; PDHCE1A;

**Gene ID** [5160](#)

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<b>mRNA Refseq</b>	NM_000284
<b>Protein Refseq</b>	NP_000275
<b>MIM</b>	300502
<b>UniProt ID</b>	P08559

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