

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

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

SPECIFICATION

Product Overview	PDHA1 MS Standard C13 and N15-labeled recombinant protein (NP_000275) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO ₂ , 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.
Molecular Mass	43.3 kDa
AA Sequence	MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLT REDGLKYYRMMQTVRRMELKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDH

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LITAYRAHGFTFTRGLSVREILAEITGRKGGCAKGKGGSMHMYAKNFYGGNGIVGA
 QVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENNR
 YGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAAYCRSGKGPILM
 ELQTYRYHGHSMSPGVSYRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEID
 VEVKIEIDAAQFATADPEPPLEELGYHIYSSDPPFEVRGANQWIKFSVSTRTRPL
 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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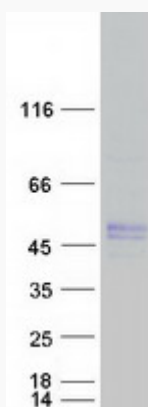
mRNA Refseq [NM_000284](#)

Protein Refseq [NP_000275](#)

MIM [300502](#)

UniProt ID [P08559](#)

SDS-PAGE



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