

Recombinant Human HADH, His-tagged

Cat. No. HADH-13657H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HADH protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-314a.a.
Description	This gene is a member of the 3-hydroxyacyl-CoA dehydrogenase gene family. The encoded protein functions in the mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. Its enzymatic activity is highest with medium-chain-length fatty acids. Mutations in this gene cause one form of familial hyperinsulinemic hypoglycemia. The human genome contains a related pseudogene of this gene on chromosome 15.
Source	E.coli
Species	Human
Tag	His
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION
Gene Name

HADH hydroxyacyl-CoA dehydrogenase [Homo sapiens]

Official Symbol

HADH

Synonyms

HADH; hydroxyacyl-CoA dehydrogenase; HADHSC, hydroxyacyl Coenzyme A dehydrogenase , L 3 hydroxyacyl Coenzyme A dehydrogenase, short chain; hydroxyacyl-coenzyme A dehydrogenase, mitochondrial; HADH1; SCHAD; short-chain 3-hydroxyacyl-CoA dehydrogenase; L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain; medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase; HAD; HCDH; HHF4; HADHSC; MSCHAD; MGC8392;

Gene ID

3033

mRNA Refseq

NM_001184705

Protein Refseq

NP_001171634

MIM

601609

UniProt ID

Q16836

Chromosome Location

4q22-q26

Pathway

Beta oxidation of butanoyl-CoA to acetyl-CoA, organism-specific biosystem; Beta oxidation of decanoyl-CoA to octanoyl-CoA-CoA, organism-specific biosystem; Beta

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oxidation of hexanoyl-CoA to butanoyl-CoA, organism-specific biosystem; Beta oxidation of lauroyl-CoA to decanoyl-CoA-CoA, organism-specific biosystem; Beta oxidation of octanoyl-CoA to hexanoyl-CoA, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem;

Function

3-hydroxyacyl-CoA dehydrogenase activity; NAD⁺ binding; coenzyme binding; nucleotide binding; oxidoreductase activity;

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