

Recombinant Human HADH

Cat. No. HADH-27760TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HADHSC produced in <i>Saccharomyces cerevisiae</i> ; 314 amino acids, MWt 34.3 kDa. 25 kDa proprietary tag is attached.
Species	Human
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.
Tissue specificity	Expressed in liver, kidney, pancreas, heart and skeletal muscle.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MAFVTRQFMRSVSSSSTASASAKKIIVKHVTVIGGGLMGA GIAQVAAATGHTVVLVD QTEDILAKSKKGIEESLRKVA KKKFAENPKAGDEFVEKTLSTIATSTDAASVVHSTDL

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VVEAIVENLKVKNELFKRLDKFAAEHTIFASNTSSLQITSI ANATTRQDRFAGLHFFNP
 VPVMKLVEVIKTPMTSQKTF ESLVDFSKALGKHPVSCKDTPGFIVNRLLVPYLMEAIR
 LYERGDASKEDIDTAMKLGAGYPMGPFELLDYVGLDTTKF IVDGWHEMDAENPLH
 QPSPSLNKLVAENKFGKKTGEGF YKYK

Sequence Similarities Belongs to the 3-hydroxyacyl-CoA dehydrogenase family.

Full Length Full L.

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;

Gene ID [3033](#)

mRNA Refseq [NM_001184705](#)

Protein Refseq [NP_001171634](#)

MIM [601609](#)

Uniprot ID [Q16836](#)

Chromosome Location 4q22-q26

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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 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;

Function

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

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