

Recombinant Human HADH, His-tagged

Cat. No. HADH-2032H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HADH protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW=35.1 kDa (323aa).
Species	Human
Source	E.coli
Description	HADH, which belongs to the family of oxidoreductases, is important for converting certain fats to energy. This protein is an enzyme that catalyzes the chemical reaction. ((S)-3-hydroxyacyl-CoA + NAD ⁺ ⇌ 3-oxoacyl-CoA + NADH + H ⁺). It is also involved in a process called fatty acid oxidation, in which several enzymes work in a step-wise fashion to break down (metabolize) fats and convert them to energy.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT VIGGGMLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPVMKLV EVIKTPMTSQ KTFESLVDFS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK FIVDGWHEMD AENPLHQPS SLNKLVAENK FGKKTGEGFY KYK.
Purity	> 95% by SDS-PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).

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Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	HADH hydroxyacyl-Coenzyme A dehydrogenase [Homo sapiens]
Synonyms	HADH; hydroxyacyl-Coenzyme A dehydrogenase; HAD; HHF4; HADH1; SCHAD; HADHSC; M/SCHAD; MGC8392; HADH; hydroxyacyl-coenzyme A dehydrogenase, mitochondrial; HCDH; short-chain 3-hydroxyacyl-CoA dehydrogenase; L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain; medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase; Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial; HCDH; EC 1.1.1.35; Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase; Short chain 3-hydroxyacyl-CoA dehydrogenase; L-3-hydroxyacyl-Coenzyme A dehydrogenase
Gene ID	3303
mRNA Refseq	NM_005327
Protein Refseq	NP_005318
MIM	601609
UniProt ID	Q16836
Chromosome Location	4q22-q26

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Pathway Butanoate metabolism; Fatty acid elongation in mitochondria; Fatty acid metabolism; Lysine degradation; Metabolic pathways; Tryptophan metabolism; Valine, leucine and isoleucine degradation

Function 3-hydroxyacyl-CoA dehydrogenase activity; binding; coenzyme binding; oxidoreductase activity

PDB rendering based on 3had.

