

# Recombinant Human Hydroxyacyl-Coenzyme A Dehydrogenase, His-tagged

Cat. No. HADH-1694H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant HADH protein was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	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 <sup>+</sup> $\rightleftharpoons$ 3-oxoacyl-CoA + NADH + H <sup>+</sup> . 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.
<b>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol and 0.1M NaCl.
<b>Purity</b>	> 95% by SDS - PAGE
<b>Sequence</b>	13-314 amino acids: MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSDAASVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPMKLV

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EVIKTPMTSQ KTFESLVDFS KALG

**Molecular Mass** 35.1 kDa (323aa), confirmed by MALDI-TOF.

**Applications** SDS-PAGE

**Storage** Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** HADH hydroxyacyl-Coenzyme A dehydrogenase [ Homo sapiens ]

**Official Symbol** HADH

**Synonyms**

HADH; hydroxyacyl-Coenzyme A dehydrogenase; HAD; HNF4; 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](#)

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<b>UniProt ID</b>	Q16836
<b>Chromosome Location</b>	4q22-q26
<b>Pathway</b>	Butanoate metabolism; Fatty acid elongation in mitochondria; Fatty acid metabolism; Lysine degradation; Metabolic pathways; Tryptophan metabolism; Valine, leucine and isoleucine degradation
<b>Function</b>	3-hydroxyacyl-CoA dehydrogenase activity; binding; coenzyme binding; oxidoreductase activity
<b>PDB rendering based on 3had.</b>	

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