

Recombinant Human Hydroxyacyl-Coenzyme A Dehydrogenase, His-tagged

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

SPECIFICATION

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

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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; 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](#)

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UniProt ID	Q16836
Chromosome Location	4q22-q26
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.	

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