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 TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPVMKLV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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 basedon 3had.	

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