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## Recombinant human HADH protein

Catalog Number: ATGP0501

### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

13-314aa

#### UniProt No.

016836

#### **NCBI Accession No.**

AAH00306

#### **Alternative Names**

Hydroxyacyl-CoA dehydrogenase, HADHSC, L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain, hydroxyacyl-Coenzyme A dehydrogenase, Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase, Short-chain 3-hydroxyacyl-CoA dehydrogenase, HADH1, SCHAD, HCDH, HAD1

#### **PRODUCT SPECIFICATION**

### **Molecular Weight**

35.1 kDa (323aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

#### **Purity**

> 95% by SDS-PAGE

## Tag

His-Tag

## **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **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 stepwise fashion to break down (metabolize) fats and convert them to energy. Recombinant HADH protein was



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expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

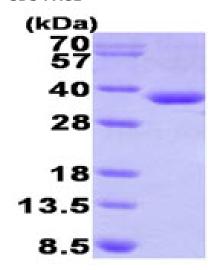
MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPVMKLV EVIKTPMTSQ KTFESLVDFS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK FIVDGWHEMD AENPLHQPSP SLNKLVAENK FGKKTGEGFY KYK

#### **General References**

Tieu K, et al. (2004) Ann Neurol. 56(1):51-60 Vredendaal PJ, et al. (1996) Biochem Biophys Res Commun. 223(3):718-23.

### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

