Recombinant human HADH protein

Catalog Number: ATGP0501

PRODUCT INFORMATION

Expression system
E.coli

Domain
13-314aa

UniProt No.
Q16836

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, HAD, 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 step-wise 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

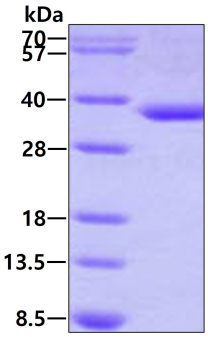
<MGSSHHHHHH SSGLVPRGSH> MSSSSTASAS AKKIIVKHVT VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPVMKLV EVIKTPMTSQ KTFESLVDFS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK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



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