

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 TSTDAASVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL
QITSIANATT RQDRFAGLHF FNPVPVMKLV EVIKTPMTSQ KTFESLVD FS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI
RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK FIVDGWHEMD AENPLHQPSP SLNKLVAENK FGKKTGEGFY
KYK

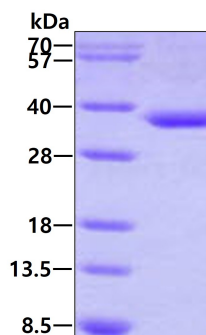
General References

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.