
Product Data Sheet

Product Name: HADH Human
 Cat. No.: GP21770
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 1.1.1.35; HAD; HADH1; HHF4; MSCHAD; SCHAD; Hydroxyacyl-coenzyme A dehydrogenase; HCDH; Short-chain 3-hydroxyacyl-CoA dehydrogenase; Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase; HADH; HADHSC; MGC8392.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPMKLV EVIKTPMITSQ KTFESLVDFS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK FIVDGWHEMD AENPLHQSP SLNKLVAENK FGKKTGEGFY KYK.		
Formulation	The HADH solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.		

Introduction

HADH is part of the 3-hydroxyacyl-CoA dehydrogenase enzyme family. HADH is involved in mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. HADH enzymatic activity is at its peak with medium-chain-length fatty acids. Mutations in HADH cause familial hyperinsulinemic hypoglycemia. HADH participates in fatty acid oxidation, where some enzymes work in a step-wise fashion to break metabolize fats and convert them to energy.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HADH Human Recombinant fused to a 21 amino acids His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 323 amino acids (13-314 a.a.) and having a molecular mass of 35.1 kDa. The HADH is purified by proprietary chromatographic techniques.

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