

HADH Human

Description: HADH Human Recombinant fused to 21 amino acid 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.

Catalog #: ENPS-506

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT
VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE
FVEKTLSTIA TSDAASVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL
QITSIANATT RQDRFAGLHF FNPVPMKLV EVIKTPMTSQ KTFESLVDFS KALGKHPVSC
KDTPGFIVNR LL

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

The HADH solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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