
Product Data Sheet

Product Name: HADHB Human
 Cat. No.: GP21771
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hydroxyacyl-CoA Dehydrogenase/3-Ketoacyl-CoA Thiolase/Enoyl-CoA Hydratase (Trifunctional Protein) Beta Subunit; Hydroxyacyl-Coenzyme A Dehydrogenase/3-Ketoacyl-Coenzyme A Thiolase/Enoyl-Coenzyme A Hydratase (Trifunctional Protein) Beta Subunit; TP-BETA; 3-Ketoacyl-Coenzyme A (CoA) Thiolase Of Mitochondrial Trifunctional Protein Beta Subunit; 2-Enoyl-Coenzyme A (CoA) Hydratase Beta Subunit; Trifunctional Enzyme Subunit Beta Mitochondrial; Mitochondrial Trifunctional Protein; Acetyl-CoA Acyltransferase; Beta-Ketothiolase; Beta Subunit; EC 2.3.1.16; EC 2.3.1; MSTP029; ECHB; MTPB.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSAAPAVQT KTKKTLAKPN IRNVVVVDGV RTPFLLSGTS YKDLMPHDLA RAALTGLLHR TSVPKVVDY IIFGTVIQEV KTSNVAREAA LGAGFSDKTP AHTVTMACIS ANQAMTTGVG LIASGQCDVI VAGGVELMSD VPIRHSRKMR KLMLDLNKAK SMGQRLSLIS KFRFNFLAPE LPAVSEFSTS ETMGHSADRL AAFAVSRLE QDEYALRSHS LAKKAQDEGL LSDVVPFKVP GKDTVTKDNG IRPSSLEQMA KLKPAFIKPY GTVTAANSSF LTDGASAMLI MAEEKALAMG YKPKAYLRDF MYVSQDPKDQ LLLGPTYATP KVLEKAGLTM NDIDAFEFHE AFSGQILANF KAMDSDWFAE NYMGRKTKVG LPPLEKFNNW GGSLSLGHPF GATGCRLVMA AANRLRKEGG QYGLVAACAA GGQGHAMIVE AYPK.		
Formulation	HADHB protein solution (0.5mg/ml) containing 20mM phosphate (pH8.0) and 10% glycerol.		

Introduction

2-Enoyl-CoenzymeA (CoA) Hydratase, Beta (HADHB) is the beta subunit of the mitochondrialtrifunctional protein, that catalyzes the last 3 phases of mitochondrialbeta-

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

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oxidation of long chain fatty acids. HADHB binds RNA and reduces the stability of various mRNAs. Mutations in HADHB cause trifunctional protein deficiency.

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.

Background

HADHB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 464 amino acids (34-474 a.a) and having a molecular mass of 49.9kDa. HADHB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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