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Product Information

MemDX™ Membrane Protein Human HADHB (Hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta) Full Length

Cat. No.: **MPC3532K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HADHB membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
HADHB

Protein Length
Full length

Protein Class
Transferase

TMD
1

Sequence
MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPN
IRNVVVVDGVRTPFLLSGTSYKDLMPHDLARAALTGLLHRTSVPKEVVDY
IIFGTVIQEVKTSNVAREAALGAGFSDKTPAHTVTMACISANQAMTTGVG
LIASGQCDVIVAGGVELMSDVPIRHSRKMRKLMLDLNKAKSMGQRLSLIS
KFRFNFLAPELPAVSEFSTSETMGHSADRLAAAFAVSRLEQDEYALRSHS
LAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLKPAFIKPY
GTVTAANSSFLTDGASAMLIMAEEKALAMGYKPKAYLRDFMYVSQDPKDQ
LLLGPTYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAMDSDWFAE
NYMGRKTKVGLPPLEKFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGG
QYGLVAACAAGGQGHAMIVEAYPK

Product Description

Expression Systems
E.coli

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

HADHB

Full Name

Hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta

Introduction

This gene encodes the beta subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the beta subunit catalyzing the 3-ketoacyl-CoA thiolase activity. The encoded protein can also bind RNA and decreases the stability of some mRNAs. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. Mutations in this gene result in trifunctional protein deficiency. Alternatively spliced transcript variants encoding different isoforms have been described.

Alternative Names

HADHB; ECHB; MTPB; MSTP029; TP-BETA; trifunctional enzyme subunit beta, mitochondrial; 2-enoyl-Coenzyme A (CoA) hydratase, beta subunit; 3-ketoacyl-Coenzyme A (CoA) thiolase of mitochondrial trifunctional protein, beta subunit; acetyl-CoA acyltransferase; beta-ketothiolase; 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; Hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta

Gene ID

3032

UniProt ID

P55084

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