

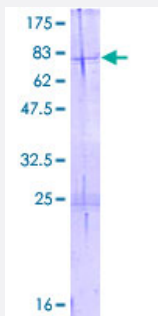
Full-Length

HADHB (Human) Recombinant Protein (P01)

Catalog # H00003032-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HADHB full-length ORF (NP_000174.1, 1 a.a. - 474 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVDGVRTPFLLS
GTSYKDLMPHDLARAALTGLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREAALGAGFSDKTPAHT
VTMACISANQAMTTGVGLIASGQCDVIVAGGVELMSDVPIRHSRKMRLMLDLNKAQSMGQRLSLI
SKFRFNFLAPELPAVSEFSTSETMGHSADRLAAFAVSRLEQDEYALRSHSLAKKAQDEGLSD
VVPFKVPGKDTVTKDNGIRPSSLEQMAKLKPAFIKPYGTVTAANSSFLTDGASAMLIMAEKALA
MGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAM
DSDWFAENYMRKTKVGLPPLEKFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGGQYGLV
ACAAGGQGHAMVEAYPK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

77.7

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HADHB

Entrez GeneID[3032](#)**GeneBank Accession#**[NM_000183.2](#)**Protein Accession#**[NP_000174.1](#)**Gene Name**

HADHB

Gene Alias

ECHB, MGC87480, MSTP029, TP-BETA

Gene Description

hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit

Omim ID[143450](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. Mutations in this gene result in trifunctional protein deficiency. 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. Alternatively spliced transcript variants have been found; however, their full-length nature is not known. [provided by RefSeq]

Other Designations

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-Coenzyme A (CoA) dehydrogenase, beta subunit|mitochondrial

Pathway

- [Fatty acid elongation in mitochondria](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [Valine](#)