

## Recombinant Full Length Human HADHB Protein, GST-tagged

Cat. No. HADHB-3445HF Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human HADHB full-length ORF ( NP_000174.1, 1 a.a. - 474 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	474 amino acids
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	77.7 kDa
<b>AA Sequence</b>	<p>MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVD            GVRTPFLLSGTSYKDLMPHDLARAALTGLLHRTSVPKEVVVDYIIFGTVIQEVKTSNVA            REAALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVAGGVELMSDVPI</p>

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RHSRKMRKLMLDLNKAKSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGHSADR  
 LAAFAVSRLEQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSL  
 EQMAKLKPAFIKPYGTVTAANSSFLTDGASAMLIMAEKALAMGYKPKAYLRDFMYV  
 SQDPKDQLLGPYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAMDSDWFAE  
 NYMGRKTKVGLPPLEKFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGGQYGL  
 VAACAAGGQGHAMIVEAYPK

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	HADHB hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit [ Homo sapiens ]
<b>Official Symbol</b>	HADHB
<b>Synonyms</b>	HADHB; 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; trifunctional enzyme subunit beta, mitochondrial; mitochondrial trifunctional protein; beta subunit; MTPB; beta-ketothiolase; acetyl-CoA acyltransferase; 2-enoyl-Coenzyme A (CoA) hydratase, beta subunit; mitochondrial

trifunctional enzyme, beta subunit; mitochondrial trifunctional protein, beta subunit; hydroxyacyl-Coenzyme A (CoA) dehydrogenase, beta subunit; 3-ketoacyl-Coenzyme A (CoA) thiolase of mitochondrial trifunctional protein, beta subunit; hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit; ECHB; MSTP029; TP-BETA; MGC87480;

**Gene ID** [3032](#)

**mRNA Refseq** [NM\\_000183](#)

**Protein Refseq** [NP\\_000174](#)

**MIM** [143450](#)

**UniProt ID** [P55084](#)

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