Trifunctional Enzyme Subunit Beta, Mitochondrial (HADHB) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Trifunctional enzyme subunit beta, mitochondrial (Hadhb), Recombinant Protein
Full Product Name	Recombinant Rat Trifunctional enzyme subunit beta, mitochondrial (Hadhb)
Product Gene Name	Hadhb recombinant protein
Product Synonym Gene Name	Hadhb
Sequence	SAPAVQTKSK KTLAKPNLKN IVVVEGVRIP FLLSGTSYKD LMPHDLARAA LSGLLYRTNI PKDVVDYIIF GTVIQEVKTS NVAREAALGA GFSDKTPAHT VTMACISSNQ AMTTAVGLIA SGQCDVVVAG GVELMSDVPI RHSRNMRKMM LDLNKAKTLA QRLSLLTKFR LNFLSPELPA VAEFSTNETM GHSADRLAAA FAVSRMEQDK YALRSHSLAK KAQDEGHLSD IVPFKVPGKD TVSKDNGIRP SSLEQMAKLK PAFIKPYGTV TAANSSFLTD GASAMLIMSE DRALAMGYKP KAYLRDFIYV SQDPKDQLLL GPTYATPKVL EKAGLTMNDI DAFEFHEAFS GQILANFKAM DSDWFAQNYM GRKTKVGAPP LEKFNIWGGS LSLGHPFGAT GCRLVMAAAN RLRKDGGQYA LVAACAAGGQ GHAMIVEAYP K
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	51,414 Da
Sequence Positions	35-475aa, Full Length of Mature Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q60587
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Hadhb recombinant protein	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.
Other Notes	Small volumes of Hadhb recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Hadhb purchase	MBS1386166 is a recombinant protein targeting Hadhb. Also known as Recombinant Rat Trifunctional enzyme subunit beta, mitochondrial (Hadhb). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Hadhb. It may not necessarily be applicable to this product.

NCBI GI #	19424338
NCBI GeneID	171155
NCBI Accession #	NP_598302.1
UniProt Primary Accession #	Q60587
UniProt Related Accession #	Q60587
GenBank Nucleotide #	NM_133618.3
NCBI Official Full Name	trifunctional enzyme subunit beta, mitochondrial
NCBI Official Synonym Full Names	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
NCBI Official Symbol	Hadhb
NCBI Official Synonym Symbols	TP-beta
UniProt Protein Name	Trifunctional enzyme subunit beta, mitochondrial
UniProt Synonym Protein Names	TP-betaIncluding the following 1 domains:3-ketoacyl-CoA thiolase (EC:2.3.1.16)Alternative name(s):Acetyl-CoA acyltransferase; Beta-ketothiolase
Protein Family	Trifunctional enzyme
UniProt Gene Name	Hadhb
NCBI Protein Information	trifunctional enzyme subunit beta, mitochondrial
NCBI Summary for Hadhb	a subunit of a multienzyme complex that is involved in mitochondrial fatty acid oxidation [RGD, Feb 2006]
Research Articles on Hadhb	**1.** The catalytic residues of the MTP beta-subunit are positioned in the active site similarly to those of monofunctional 3-ketoacyl-CoA thiolase.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/trifunctional-enzyme-subunit-beta-mitochondrial-hadhb/1386166