



# Recombinant Rat Trifunctional enzyme subunit beta, mitochondrial (Hadhb)

<b>Product Code</b>	CSB-EP736721RA
<b>Abbreviation</b>	Hadhb
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q60587
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SAPAVQ TSKKTLAKP NLKNIVVVEG VRIPFLLSGT SYKDLMPHDL ARAALSGLLY RTNIPKDVVD YIIFGTVIQE VKTSNVAREA ALGAGFSDKT PAHTVTMACI SSNQAMTTAV GLIASGQCDV VVAGGVELMS DVPIRHSRNM RKMMLDLNKA KTLAQRLLSLL TKFRLNFLSP ELPVAEAFST NETMGHSADR LAAFAVSRM EQDKYALRSH SLAKKAQDEG HLSDIVPFKV PGKDTVSKDN GIRPSSLEQM AKLKPAFIKP YGTVTAANSS FLTDGASAML IMSEDRALAM GYKPKAYLRD FIYVSQDPKD QLLLGPYAT PKVLEKAGLT MNDIDAFEFH EAFSGQILAN FKAMDSDWFA QNYMGRKTKV GAPPLEKFNI WGGSLSLGHP FGATGCRLVM AAANRLRKDG GQYALVAACA AGGQGHAMIV EAYPK
<b>Source</b>	E.coli
<b>Target Names</b>	Hadhb
<b>Protein Names</b>	Recommended name: Trifunctional enzyme subunit beta, mitochondrial Alternative name(s): TP-beta Including the following 1 domains: 3-ketoacyl-CoA thiolase EC= 2.3.1.16 Alternative name(s): Acetyl-CoA acyltransferase Beta-ket
<b>Expression Region</b>	35-475
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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