

HADHB Protein, Human (GST)

Cat. No.:	HY-P71471
Synonyms:	3-ketoacyl-CoA thiolase; Acetyl CoA acyltransferase; Acetyl-CoA acyltransferase; Beta ketothiolase; Beta-ketothiolase; ECHB; ECHB_HUMAN; HADH; Hadhb; beta subunit; Hydroxyacyl Coenzyme A (CoA) dehydrogenase beta subunit; MGC87480; MSTP 029; MSTP029; MTPB; TP beta; TP-beta; TPbeta; Trifunctional enzyme subunit beta; Trifunct
Species:	Human
Source:	E. coli
Accession:	P55084 (35A-283P)
Gene ID:	3032
Molecular Weight:	Approximately 53.8 kDa

PROPERTIES

AA Sequence	<pre> A P A V Q T K T K K T L A K P N I R N V V V V D G V R T P F L L S G T S Y K D L M P H D L A R A A L T G L L H R T S V P K E V V D Y I I F G T V I Q E V K T S N V A R E A A L G A G F S D K T P A H T V T M A C I S A N Q A M T T G V G L I A S G Q C D V I V A G G V E L M S D V P I R H S R K M R K L M L D L N K A K S M G Q R L S L I S K F R F N F L A P E L P A V S E F S T S E T M G H S A D R L A A A F A V S R L E Q D E Y A L R S H S L A K K A Q D E G L L S D V V P F K V P G K D T V T K D N G I R P </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	HADHB protein serves as an integral component of the mitochondrial trifunctional enzyme, orchestrating the final three reactions within the mitochondrial beta-oxidation pathway. This crucial pathway is paramount for energy production in various tissues, breaking down fatty acids into acetyl-CoA through a series of four consecutive reactions. Specifically
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tailored for long-chain fatty acids, the trifunctional enzyme operates as a heterotetrameric complex composed of two distinct subunits. HADHA, carrying 2,3-enoyl-CoA hydratase and 3-hydroxyacyl-CoA dehydrogenase activities, partners with HADHB, the focus here, which houses the 3-ketoacyl-CoA thiolase activity. This intricate collaboration underscores HADHB's pivotal role in driving the final steps of mitochondrial beta-oxidation, contributing to energy homeostasis in cellular metabolism.

Caution: Product has not been fully validated for medical applications. For research use only.

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