

HCDH Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71563
Synonyms:	Hadh; Hadhsc; Mschad; Schad; Hydroxyacyl-coenzyme A dehydrogenase; mitochondrial; HCDH; EC 1.1.1.35; Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase; Short-chain 3-hydroxyacyl-CoA dehydrogenase
Species:	Mouse
Source:	E. coli
Accession:	Q61425 (13S-314K)
Gene ID:	15107
Molecular Weight:	Approximately 49.0 kDa

PROPERTIES

AA Sequence	<pre> S S S S S A S A A A K K I L I K H V T V I G G G L M G A G I A Q V A A A T G H T V V L V D Q T E D I L A K S K K G I E E S L K R M A K K K F T E N P K A G D E F V E K T L S C L S T S T D A A S V V H S T D L V V E A I V E N L K L K N E L F Q R L D K F A A E H T I F A S N T S S L Q I T N I A N A T T R Q D R F A G L H F F N P V P M M K L V E V I K T P M T S Q K T F E S L V D F C K T L G K H P V S C K D T P G F I V N R L L V P Y L I E A V R L H E R G D A S K E D I D T A M K L G A G Y P M G P F E L L D Y V G L D T T K F I L D G W H E M E P E N P L F Q P S P S M N N L V A Q K K L G K K T G E G F Y K Y K </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	HCDH protein, a key participant in mitochondrial fatty acid beta-oxidation, orchestrates the third step of the beta-oxidation cycle specifically for medium and short-chain 3-hydroxy fatty acyl-CoAs ranging from C4 to C10. Beyond its role in lipid metabolism, HCDH exerts regulatory control over insulin secretion by impeding the activation of glutamate dehydrogenase
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1 (GLUD1). This inhibition of GLUD1, a crucial enzyme in amino acid-induced insulin secretion, positions HCDH as a pivotal factor in the intricate regulation of cellular processes associated with energy metabolism and glucose homeostasis.

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

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