GCDH Protein, Human (His)

Cat. No.:	HY-P70888
Synonyms:	Glutaryl-CoA Dehydrogenase Mitochondrial; GCD; GCDH
Species:	Human
Source:	E. coli
Accession:	Q92947 (R45-K438)
Gene ID:	2639
Molecular Weight:	Approximately 41.0 kDa

PROPERTIES

AA Sequence	R P E F D W Q D P L V L E E Q L T T D E I L I R D T F R T Y C Q E R L M P R I L L A N R N E V F H R E I I S E M G E L G V L G P T I K G Y G C A G V S S V A Y G L L A R E L E R V D S G Y R S A M S V Q S S L V M H P I Y A Y G S E E Q R Q K Y L P Q L A K G E L L G C F G L T E P N S G S D P S S M E T R A H Y N S S N K S Y T L N G T K T W I T N S P M A D L F V V W A R C E D G C I R G F L L E K G M R G L S A P R I Q G K F S L R A S A T G M I I M D G V E V P E E N V L P G A S S L G G P F G C L N N A R Y G I A W G V L G A S E F C L H T A R Q Y A L D R M Q F G V P L A R N Q L I Q K K L A D M L T E I T L G L H A C L Q L G R L K D Q D K A A P E M V S L L K R N N C G K A L D I A R Q A R D M L G G N G I S D E Y H V I R H A M N L E A V N T Y E G T H D I H A L I L G R A I T G I Q A F T A S K
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	GCDH Protein plays a crucial role in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism by

catalyzing the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA, accompanied by the release of CO(2). This enzymatic process involves the utilization of electron transfer flavoprotein as its electron acceptor, highlighting the protein's dependence on this cofactor for efficient functioning within the metabolic pathway. It's noteworthy that the Short isoform of GCDH Protein is inactive, indicating the existence of multiple isoforms with varying functional properties in the regulation of this metabolic process.

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

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