Recombinant Human GCDH Protein, GST-tagged

Cat. No. GCDH-4790H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GCDH full-length ORF (NP_000150.1, 1 a.a. - 438 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family. It catalyzes the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA and CO(2) in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism. It uses electron transfer flavoprotein as its electron acceptor. The enzyme exists in the mitochondrial matrix as a homotetramer of 45-kD subunits. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq
Molecular Mass	74.5 kDa
AA Sequence	MALRGVSVRLLSRGPGLHVLRTWVSSAAQTEKGGRTQSQLAKSSRPEFDWQDPLV LEEQLTTDEILIRDTFRTYCQERLMPRILLANRNEVFHREIISEMGELGVLGPTIKGYG CAGVSSVAYGLLARELERVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPQLAK GELLGCFGLTEPNSGSDPSSMETRAHYNSSNKSYTLNGTKTWITNSPMADLFVVWA RCEDGCIRGFLLEKGMRGLSAPRIQGKFSLRASATGMIIMDGVEVPEENVLPGASSL GGPFGCLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGVPLARNQLIQKKLAD MLTEITLGLHACLQLGRLKDQDKAAPEMVSLLKRNNCGKALDIARQARDMLGGNGIS

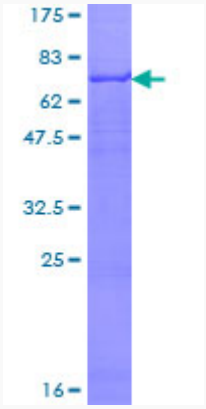
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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GCDH glutaryl-CoA dehydrogenase [Homo sapiens]
Official Symbol	GCDH
Synonyms	GCDH; glutaryl-CoA dehydrogenase; glutaryl Coenzyme A dehydrogenase; glutaryl-CoA dehydrogenase, mitochondrial; ACAD5; glutaryl-Coenzyme A dehydrogenase; GCD;
Gene ID	2639
mRNA Refseq	NM_000159
Protein Refseq	NP_000150
MIM	608801

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UniProt ID	Q92947
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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