

# Recombinant Full Length Human GCDH Protein, GST-tagged

**Cat. No.** GCDH-5167HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GCDH full-length ORF ( NP_000150.1, 1 a.a. - 438 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	438 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	74.5 kDa
<b>AA Sequence</b>	MALRGVSVRLLSRGPGLHVLRTWVSSAAQTEKGGRTQSQLAKSSRPEFDWQDPLV LEEQLTTDEILIRDTRTYCQERLMPRILLANRNEVFHREIISEMGELGVLGPTIKGYG CAGVSSVAYGLLARELERVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPLQAK GELLGCFGLTEPNSGSDPSSMETRAHYNSSNKSYTLNGTKTWITNSPMADLFVWWA RCEDGCIRGFLLLEKGMRGLSAPRIQGGKFSLRASATGMIIMDGVEVPEENVLPGASSL GGPFGCLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGVPLARNQLIQKKLAD

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MLTEITLGLHACLQLGRLKDQDKAAPMVLLKRNCCGKALDIARQARDMLGGNGIS  
 DEYHVIRHAMNLEAVNTYEGTHDIHALILGRAITGIQAF TASK

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

## GENE INFORMATION

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



UniProt ID

Q92947

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA