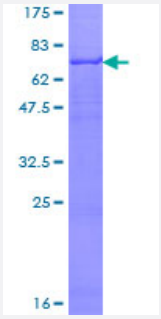
Full-Length

GCDH (Human) Recombinant Protein (P01)

Catalog # H00002639-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GCDH full-length ORF (NP_000150.1, 1 a.a. - 438 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MALRGVSVRLLSRGPGLHVLRTWVSSAAQTEKGGRTQSQLAKSSRPEFDWQDPLVLEEQLTTD EILIRDTFRTYCQERLMPRILLANRNEVFHREIISEMGELGVLGPTIKGYGCAGVSSVAYGLLARELE RVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPQLAKGELLGCFGLTEPNSGSDPSSMETRA HYNSSNKSYTLNGTKTWITNSPMADLFVVWARCEDGCIRGFLLEKGMRGLSAPRIQGKFSLRASA TGMIIMDGVEVPEENVLPGASSLGGPFGCLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGV PLARNQLIQKKLADMLTEITLGLHACLQLGRLKDQDKAAPEMVSLLKRNNCGKALDIARQARDML GGNGISDEYHVIRHAMNLEAVNTYEGTHDIHALILGRAITGIQAFTASK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	74.5
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GCDH

Entrez GeneID	2639
GeneBank Accession#	NM_000159.2
Protein Accession#	NP_000150.1
Gene Name	GCDH
Gene Alias	ACAD5, GCD
Gene Description	glutaryl-Coenzyme A dehydrogenase
Omim ID	231670 608801
Gene Ontology	Hyperlink
Gene Summary	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 s ubunits. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq
Other Designations	glutaryl-CoA dehydrogenase, mitochondrial

Pathway

- Benzoate degradation via CoA ligation

- Fatty acid metabolism
- Lysine degradation
- Metabolic pathways
- Tryptophan metabolism

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema