

GCDH (Human) Recombinant Protein

Catalog # P9597

Size 2 x 10 ug

Specification

Product Description	Human GCDH (Q92947, 45 a.a. - 438 a.a.) partial recombinant protein with His tag at N-terminus expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMRPEFDWQDPLVLEEQLTTDEILIRDTFRTYCQERLMPRILLANR NEVFHREIISEMGELGVLGPTIKGYGCAGVSSVAYGLLARELERVDSGYRSAMSVQSSLVMHPIYA YGSEEQRQKYLPLAKGELLGCFGLTEPNSGSDPSSMETRAHYNSSNKSYYTLNGTKTWITNSPM ADLFVWWARCEDGCIRGFLLEKGMRLSAPRIQKGFSLRASATGMIMDGVPEENVLPGASSL GGPFGCLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGVPLARNQLIQKKLADMLTEITLGLH ACLQLGRLKDQDKAAPMVSLKRNCGKALDIARQARDMLGGNGISDEYHVIRHAMNLEAVNTY EGTHDIHALILGRAITGIQAF TASK
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	45.8
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 90.0% by SDS-PAGE
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (0.2 M NaCl, 5 mM DTT and 20% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — GCDH

Entrez GeneID [2639](#)**Protein Accession#** [Q92947](#)**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 subunits. 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](#)