

Recombinant Human Glutaryl-CoA Dehydrogenase, His-tagged

Cat. No. GCDH-2728H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human GCDH protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques. MW = 45.8kDa (415aa), confirmed by MALDI-TOF.

Species Human

Source E.coli

Description Glutaryl-CoA dehydrogenase (GCDH) belongs to the acyl-CoA dehydrogenase family. GCDH 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. This Protein 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.

Sequences Of Amino Acids

MGSSHHHHHH SGLVPRGSH MRPEFDWQDP LVLEEQLTTD EILIRDFTFT
 YCQERLMPRI LLANRNEVFH REIISEMGEL GVLGPTIKGY GCAGVSSVAY
 GLLARELERV DSGYRSAMSV QSSVMHPIY AYGSEEQRQK YLPQLAKGEL
 LGCFGLTEPN SGSDPSSMET RAHYNSSNKS YTLNGTKTWI TNSPMADLFV
 VWARCEDGCI RGFLLEKGMR GLSAPRIQ GK FSLRASATGM IIMDGVEVPE
 ENVLPGASSL GPPFGCLNNA RYGIAWGV LG ASEFCLHTAR QYALDRMQFG
 VPLARNQLIQ KKLADMLTEI TLGLHACLQL GRLKDQDKAA PEMV SLLKRN
 NCGKALDIAR QARDMLGGNG ISDEYHVIRH AMNLEAVNTY EGT HDIHALI

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LGRAITGIQA FTASK
Form

Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 5mM DTT, 200mM NaCl.

Purity

> 90% by SDS – PAGE.

Concentration

0.5 mg/ml (determined by Bradford assay).

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

[GCDH glutaryl-CoA dehydrogenase \[Homo sapiens \]](#)

Synonyms

GCDH; glutaryl-CoA dehydrogenase; GCD; ACAD5; glutaryl-CoA dehydrogenase, mitochondrial; glutaryl-Coenzyme A dehydrogenase; EC 1.3.99.7

Gene ID

[2639](#)

mRNA Refseq

[NM_000159](#)

Protein Refseq

[NP_000150](#)

MIM

[608801](#)

UniProt ID

[Q92947](#)

**Chromosome
Location**


19p13.2

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Pathway	Fatty acid metabolism; Lysine degradation; Metabolic pathways; Tryptophan metabolism
Function	FAD binding; glutaryl-CoA dehydrogenase activity; protein binding

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