

Recombinant human GCDH protein

Catalog Number: ATGP0622

PRODUCT INFORMATION

Expression system

E.coli

Domain

45-438aa

UniProt No.

Q92947

NCBI Accession No.

NP_000150

Alternative Names

Glutaryl-CoA dehydrogenase, ACAD5, GCD, Glutaryl-CoA dehydrogenase, ACAD-5, ACAD 5,

PRODUCT SPECIFICATION

Molecular Weight

45.7 kDa (415aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 5mM DTT, 200mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant GCDH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

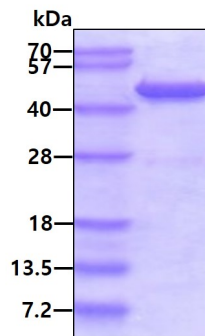
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SGSDPSSMET RAHYNSSNKS YTLNGTKTWI TNSPMADLFV VWARCEDGCI RGFLEKGM R GLSAPRIQK FSLRASATGM
IIMDGVEVPE ENVLPGASSL GGPFGLNNA RYGIWGVVLG AEFCLHTAR QYALDRMQFG VPLARNQLIQ KKLADMLTEI
TLGLHACLQL GRLKDQDKAA PEMVSLKRN NCGKALDIAR QARDMLGGNG ISDEYHVIRH AMNLEAVNTY EGTHDIHALI
LGRAITGIQA FTASK

General References

Keyser B., et al. (2008) Hum. Mol. Genet. 17:3854-3863
Westover JB., et al. (2001) Biochemistry. 40(46):14106-14.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.