

AR09559PU-L

Human GCD / GCDH (45-438, His-tag) - Purified

Alternate names:

Glutaryl-CoA dehydrogenase

Quantity:

0.25 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

Glutaryl-CoA dehydrogenase (GCDH) belongs to the acyl-CoA dehydrogenase family. GCDH catalyzes the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA and CO₂ 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.

Uniprot ID:

[Q92947](#)

NCBI:

[NP_000150](#)

GeneID:

[2639](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 5 mM DTT, 200 mM NaCl

Description:

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

AA Sequence:

MGSSHHHHH SSGLVPRGSH MRPEFDWQDP LVLEEQLTTD EILIRDFTFT YCQERLMPRI
LLANRNEVFH REIISEMGEL GVLGPTIKGY GCAGVSSVAY GLLARELERV DSGYRSAMSV
QSSLMHPIY AYGSEEQRQK YLPQLAKGEL LGCFGLTEPN SGSDPSSMET RAHYNSSNKS
YTLNGTKTWI TNSPMADLFV VWARCEDGCI RGFLLEKGMR GLSAPRIQ GK FSLRASATGM
IIMDGVEVPE ENVLPGASSL GGPFGCLNNA RYGIWGVLG ASEFCLHTAR QYALDRMQFG
VPLARNQLIQ KKLADMLTEI TLGLHACLQL GRLKDQDKAA PEMVSLKRN NCGKALDIAR
QARDMLGGNG ISDEYHVIRH AMNLEAVNTY EGTTHIALI LGRAITGIQA FTASK

Molecular weight: 45.8 kDa (415aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

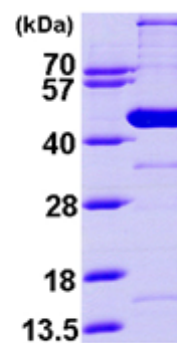
Shelf life: one year from despatch.

General Readings:

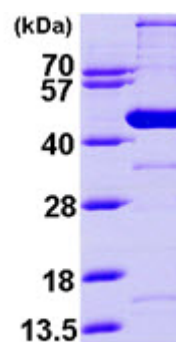
Keyser B., et al. (2008) Hum. Mol. Genet. 17:3854-3863.

Pictures:

Recombinant human GCDH, 45-438aa,
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)