

Product information

GCDH, 45-438aa

Human, His-tagged, Recombinant, *E.coli*

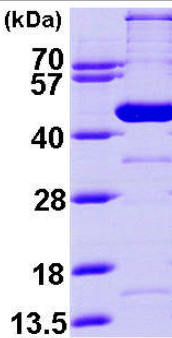
Cat. No. IBATGP0622

Full name: Glutaryl-CoA dehydrogenase

NCBI Accession No.: NP_000150

Synonyms: ACAD5, GCD

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.

<p>Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 5mM DTT, 200mM NaCl</p> <p>Molecular Weight: 45.8kDa (415aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <pre> MGSSHHHHH SSGLVPRGSH MRPEFDWQDP LVLEEQLTTO EILIRDTFRT YCQERLMPRI LLANRNEVFH REIISEMGEL GVLGPTIKGY GCAGVSSVAY GLLARELERV DSGYRSAMSV QSSLVMHPIY AYGSEEQRQK YLPQLAKGEL LGCFGLTEPN SGSDPSSMET RAHYNSSNKS YTLNGTKTWI TNSPMADLFV VWARCEDGCI RGFLLKGMRL GLSAPRIQ GK FSLRASATGM IIMDGVEVPE ENVLPGASSL GGPFGCLNNA RYGIAWGVLG ASEFCLHTAR QYALDRMQFG VPLARNQLIQ KKLADMLTEI TLGLHACLQL GRLKDQDKAA PEMVSL LKRN NCGKALDIAR QARDMLGGNG ISDEYHVIRH AMNLEAVNTY EGT HDIHALI LGRAITGIQA FTASK </pre>	

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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General references:

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

Westover JB., *et al.* (2001) *Biochemistry.* 40(46):14106-14.

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.

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