

**GCDH, 45-438aa, Human, His tag, E.coli**

**Cat.NO.: TP02208**

3th Edition

**Synonyms:**Glutaryl-CoA dehydrogenase, 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 Llysine, 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.

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

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

**Sequences:**

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MGSSHHHHHHSSGLVPRGSHMRPEFDWQDPLVLEEQLTTDEILIRDTRFTYCQERLMPRILLANRNEVFHREIISEM
GELGVLGPTIKGYGCAGVSSVAYGLLARELERVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPLAKGELLG
CFGLTEPNSSGSDPSSMETRAHYNSSNKS YTLNGTKTWITNSPMADLFVWARCEDGCIRGFLEKGM RGLSAPRI
QGKFSLRASATGMIIMDGVEVPEENVLPGASSLGGPFGCLNNARYGIAWVGLGASEFCLHTARQYALDRMQFGVP
LARNQLIQKKLADMLTEITLGLHACLQLGRLKDQDKAAPMV SLLKRNNCGKALDIARQARDMLGGNGISDEYHVIR
HAMNLEAVNTYEGTHDIHALILGRAITGIQAFTASK
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**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.