

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:

MGSSHHHHHHSSGLVPRGSHMRPEFDWQDPLVLEEQLTTDEILIRDTFRITYCQERLMPRILLANRNEVFHREIISEM
GELGVLGPTIKGYGCAGVSSVAYGLLARELERVD SGYRSAMSVQSSLVMHPIYAYGSEEQRQKYL PQLAKGELLG
CFGLTEPN SGDPSSMETRAHYNSSNKS YTLNGTKTWITNSPMADLFV VWARCEDGCIRGF LLEKGM RGLSAPRI
QGKFSLRASATGMIIMDGVEVPEENVLP GASSLG GPFGLNNARYGIAWGV LGASEFCLHTARQYALDRMQFGVP
LARNQLIQKKLADMLTEITLGLHACLQLGR LKDQDKAAP EMVSLLKRNNCGKALDIARQARDMLGGNGISDEYHVIR
HAMNLEAVNTYEGTHDIHALILGRAITGIQAFTASK

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.