

## GCDH Human

**Description:** GCDH Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 415 amino acids (45-438 a.a.) and having a molecular mass of 45.8 kDa. The GCDH is fused to 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-549

For research use only.

**Synonyms:** ACAD5, GCD, EC 1.3.99.7, GCDH, Glutaryl-Coenzyme A Dehydrogenase, glutaryl-CoA dehydrogenase.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MRPEFDWQDP LVLEEQLTTD  
EILIRDTFRT YCQERLMPRI LLANRNEVFH REIISEMGEL GVLGPTIKGYGCAGVSSVAY  
GLLARELERV DSGYRSAMSV QSSLMHPIY AYGSEEQRQK YLPQLAKGEL LGCFGLTEPN  
SGSDPSSMET RAHYNSSNKS YTLNGTKTWI TNSPMADLFV VWARCEDGCI RGFLLEKGMR  
GLSAPRIQK FSL

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

0.5mg/ml solution containing 20mM Tris-HCl, pH-8, 5mM DTT, 0.2M NaCl & 20% glycerol.

**Stability:**

GCDH Human although stable at 4°C for 1 week, should be stored desiccated below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GCDH is part of the acyl-CoA dehydrogenase family. GCDH is localized in the mitochondrial matrix as a homotetramer of 45-kD subunits. 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. GCDH uses electron transfer flavoprotein as its electron acceptor.

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