
Product Data Sheet

Product Name: GCDH Human

Cat. No.: GP21666

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ACAD5; GCD; EC 1.3.99.7; GCDH; Glutaryl-Coenzyme A Dehydrogenase; glutaryl-CoA dehydrogenase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MRPEFDWQDP LVLEEQLTTD EILIRDTFRT YCQERLMPRI LLANRNEVFH REIISEMGEL GVLGPTIKGY GCAGVSSVAY GLLARELERV DSGYRSAMSV QSSLVMHPIY AYGSEEQRQK YLPQLAKGEL LGCFGLTEPN SGSDPSSMET RAHYNSSNKS YTLNGTKTWI TNSPMADLFV VWARCEDGCI RGFLLEKGM R GLSAPRIQ GK FSLRASATGM IIMD GVEVPE ENVLPGASSL GGPFGCLNNA RYGI AWGVLG ASEFCLHTAR QYALDRMQFG VPLARNQLIQ KKLADMLTEI TLGLHACLQL GRLKDQDKAA PEMV SLLKRN NCGKALDIAR QARDMLGGNG ISDEYHVIRH AMNLEAVNTY EGT HDIHALI LGRAITGIQA FTASK.		
Formulation	0.5mg/ml solution containing 20mM Tris-HCl, pH-8, 5mM DTT, 0.2M NaCl & 20% glycerol.		

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 CO₂ in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism. GCDH uses electron transfer flavoprotein as its electron acceptor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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.

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