

GCDH 抗原（重组蛋白）

中文名称：GCDH 抗原（重组蛋白）

英文名称：GCDH Antigen (Recombinant Protein)

别名：glutaryl-CoA dehydrogenase; GCD; ACAD5

储存：冷冻（-20℃）

相关类别：抗原

概述

Fusion protein corresponding to a region derived from 239-438 amino acids of human GCDH

技术规格

Full name:	glutaryl-CoA dehydrogenase
Synonyms:	GCD; ACAD5
Swissprot:	Q92947
Gene Accession:	BC002579
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family. It 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. It uses electron transfer flavoprotein as its electron acceptor. The enzyme exists in the mitochondrial matrix as a homotetramer of 45-kD subunits. Mutations in this gene result in the metabolic disorder glutaric aciduria type

1, which is also known as glutaric acidemia type I. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 12.