GCDH Protein, Human (sf9, His)

Cat. No.:	HY-P76357
Synonyms:	Glutaryl-CoA Dehydrogenase Mitochondrial; GCD; GCDH
Species:	Human
Source:	Sf9 insect cells
Accession:	Q92947 (M1-K438)
Gene ID:	2639
Molecular Weight:	Approximately 44.9 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, pH 8.0, 300 mM NaCl, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GCDH Protein plays a crucial role in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism by catalyzing the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA, accompanied by the release of CO(2). This enzymatic process involves the utilization of electron transfer flavoprotein as its electron acceptor, highlighting the protein's dependence on this cofactor for efficient functioning within the metabolic pathway. It's noteworthy that the Short isoform of GCDH Protein is inactive, indicating the existence of multiple isoforms with varying functional properties in the regulation of this metabolic process.

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