



Recombinant Protein Technical Manual

Recombinant Human GCDH Protein (His Tag)

RPE5067

Product Data:

Product SKU: RPE5067

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q92947

Protein Information:

Molecular Mass: 45.0 kDa

AP Molecular Mass: 41 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Glutaryl-CoA Dehydrogenase Mitochondrial; GCD; GCDH

Immunogen Information:

Sequence: Arg45-Lys438

Background:

Glutaryl-CoA Dehydrogenase Mitochondrial (GCDH) is an enzyme that acts upon glutaryl-coenzyme A, creating crotonyl-coenzyme A. It plays a role in the metabolism of lysine, hydroxylysine and tryptophan. It uses electron transfer flavoprotein as its electron acceptor. Isoform Short is inactive Glutaryl-CoA and electron-transfer flavoprotein to (E)-but-2-enoyl-CoA, CO₂ and reduced electron-transfer flavoprotein. A defect in this enzyme is associated with neurological condition glutaric acidemia type 1 and cause a progressive form of early-onset generalized dystonia.