



Recombinant Human Glutaryl-CoA dehydrogenase, mitochondrial (GCDH)

Product Code	CSB-EP849798HU
Abbreviation	GCDH
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q92947
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	RPEFDW QDPLVLEEQL TTDEILIRD TFR TYCQERLM PRILLANRNE VFHREIISEM GELGVLGPTI KGYGCAGVSS VAYGLLAREL ERVDSGYRSA MSVQSSLV MH PIYAYGSEEQ RQKYLPQLAK GELLGCFGLT EPNSGSDPSS METRAHYNSS NKS YTLNGTK TWITNSPMAD LFV VWARCED GCIRGFLLEK GMRGLSAPRI QGKFSLRASA TGM IIMD GVE VPEENVLP GA SSLGGPFGCL NNARYGIAWG VLGASEFCLH TARQYALDRM QFGVPLARNQ LIQKKLADML TEITLGLHAC LQLGRLKDQD KAAP EMV SLL KRNNCGKALD IARQARDMLG GNGISDEYHV IRHAMNLEAV NTYEGTHDIH ALILGRAITG IQAFTASK
Source	E.coli
Target Names	GCDH
Protein Names	Recommended name: Glutaryl-CoA dehydrogenase, mitochondrial Short name= GCD EC= 1.3.99.7
Expression Region	45-438
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein 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. Alternatively spliced transcript variants encoding different isoforms have been identified.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.