

## 32-8230: Recombinant Human Glutaryl-CoA Dehydrogenase Mitochondrial/GCDH (N-6His)

**Gene :** GCDH  
**Gene ID :** 2639  
**Uniprot ID :** Q92947

### Description

Source: E. coli.  
MW :45kD.

Recombinant Human GCDH is produced by our E.coli expression system and the target gene encoding Arg45-Lys438 is expressed with a 6His tag at the N-terminus. 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, CO<sub>2</sub> 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, pH 7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MNHKVHHHHHMRPEFDWQDPLVLEEQLTTDEILIRDTFRTYCQERLMPRILLANRNEVFHREIISEMGELGVL  
GPTIKGYGCAGVSSVAYGLLARELERVDSGYRSAMSVQSSLMHPIYAYGSEEQRQKYLPLAKGELLGCFGLT  
EPNSGSDPSSMETRAHYNSSNKSYYTLNGTKTWITNSPMADLFVWWARCEDGCIRGFLLEKGMRGLSAPRIQK  
FSLRASATGMIIMDGVPEENVLPGASSLGGPFGLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGVPL  
ARNQLIQKKLADMLTEITLGLHAQLGRLKDQDKAAPMVSLKRNCCGKALDIARQARDMLGGNGISDEYH  
VIRHAMNLEAVNTYEGTHDIHALILGRAITGIQAF TASK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.