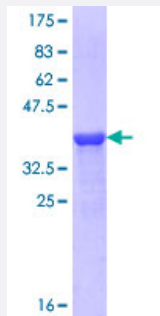


# GLDC (Human) Recombinant Protein (Q01)

Catalog # H00002731-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human GLDC partial ORF ( NP_000161.1, 922 a.a. - 1020 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	AMISIRQEIADIEEGRIDPRVNPLKMSPHSLTCVTSSHWDPRYSREVAAFPLPFMKPENKFWPTIAR IDDIYGDQHLVCTCPPMEVYESPFSEQKRASS
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.63
<b>Interspecies Antigen Sequence</b>	Mouse (98); Rat (98)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — GLDC

Entrez GeneID [2731](#)

GeneBank Accession# [NM\\_000170](#)

Protein Accession# [NP\\_000161.1](#)

Gene Name GLDC

Gene Alias GCE, GCSP, HYGN1, MGC138198, MGC138200, NKH

Gene Description glycine dehydrogenase (decarboxylating)

Omim ID [238300](#) [605899](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The enzyme system for cleavage of glycine (glycine cleavage system; GCS; EC 2.1.2.10), which is confined to the mitochondria, is composed of 4 protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). Glycine encephalopathy (GCE; MIM 605899) may be due to a defect in any one of these enzymes; see MIM 238310, MIM 238330, and MIM 238331.[supplied by OMIM]

**Other Designations** OTTHUMP00000044451|glycine cleavage system protein P|glycine decarboxylase P-protein|glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P)

## Pathway

- [Glycine](#)
- [Metabolic pathways](#)

## Disease

- [Hyperglycinemia](#)