

## Recombinant Human GLDC Protein, GST-tagged

**Cat. No.** GLDC-4950H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human GLDC partial ORF ( NP_000161.1, 922 a.a. - 1020 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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 |
| <b>Molecular Mass</b>   | 36.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | AMISIRQEIADIEEGRIDPRVNPLKMSPHSLTCVTSSHWDRPYSREVAAFPLPFMKPE<br>NKFWPTIARIDDIYGDQHLVCTCPPMEVYESPFSEQKRASS                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                         |

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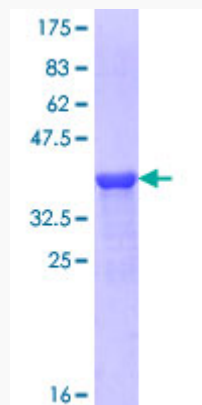
|                         |                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>        | GLDC glycine dehydrogenase (decarboxylating) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>  | GLDC                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>         | GLDC; glycine dehydrogenase (decarboxylating); glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P); glycine dehydrogenase [decarboxylating], mitochondrial; GCSP; glycine cleavage system protein P; glycine decarboxylase; NKH; glycine decarboxylase P-protein; glycine cleavage system P protein; GCE; HYGN1; MGC138198; MGC138200; |
| <b>Gene ID</b>          | 2731                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_000170                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>   | NP_000161                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>              | 238300                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>       | P23378                                                                                                                                                                                                                                                                                                                                                                               |

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**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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