

Recombinant Human GLDC Protein, GST-tagged

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

SPECIFICATION

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

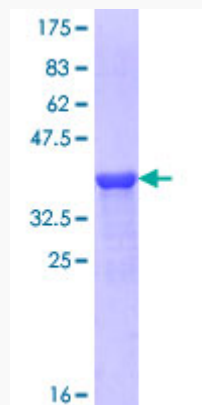
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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