

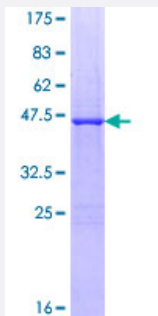
Full-Length

GCSH (Human) Recombinant Protein (P01)

Catalog # H00002653-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GCSH full-length ORF (AAH00790.1, 1 a.a. - 173 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTTEKHEWVTTEN
GIGTVGISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAEN
PGLV NKSCYEDGWLKMTLSNPSELDELMSEEAYEKYKSIEE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

44.77

Interspecies Antigen Sequence

Mouse (80); Rat (85)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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 — GCSH

Entrez GeneID [2653](#)**GeneBank Accession#** [BC000790](#)**Protein Accession#** [AAH00790.1](#)**Gene Name** GCSH**Gene Alias** GCE, NKH**Gene Description** glycine cleavage system protein H (aminomethyl carrier)**Omim ID** [238330](#) [605899](#)**Gene Ontology** [Hyperlink](#)

Gene Summary The enzyme system for cleavage of glycine (glycine cleavage system; 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; MIM 238300), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme; MIM 238310), and L protein (a lipoamide dehydrogenase; MIM 238331). Glycine encephalopathy (GCE; MIM 605899), also called nonketotic hyperglycemia (NKH), may be due to a defect in any one of these enzymes.[supplied by OMIM]

Other Designations lipoic acid-containing protein|mitochondrial glycine cleavage system H-protein|part of mitochondrial matrix glycine cleavage enzyme complex of 4 proteins: H-, L-, P-, and T-proteins

Disease

- [Genetic Predisposition to Disease](#)
- [Hyperglycinemia](#)
- [Kidney Failure](#)