

Human GCSH Protein (His Tag)

Catalog Number: 14568-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

GCE; NKH; 1100001L02Rik; 5730591C18Rik

Protein Construction:

A DNA sequence encoding the mature form of human GCSH (AAA36011.1) (Ser49-Glu173) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human GCSH consists of 140 amino acids and predicts a molecular mass of 15.7 KDa. It migrates as an approximately 17 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

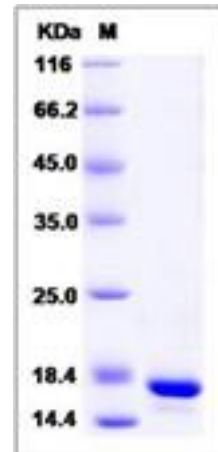
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial 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). GCSH is the H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in GCSH gene are a cause of nonketotic hyperglycinemia (NKH). Two transcript variants, one protein-coding and the other probably not protein-coding, have been found for GCSH gene. Also, several transcribed and non-transcribed pseudogenes of GCSH gene exist throughout the genome.

References

1. Hiraga K. et al., 1988, Biochem Biophys Res Commun. 151 (2): 758-62.
2. Fujiwara K. et al., 1991, Biochem Biophys Res Commun. 176 (2): 711-6.
3. Koyata H. et al., 1991, Am J Hum Genet. 48 (2): 351-61.

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