

## GCSH Human

**Description:**GCSH Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 149 amino acids (48-173) and having a molecular mass of 16.4 kDa.GCSH is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-980

For research use only.

**Synonyms:**Glycine cleavage system protein H (aminomethyl carrier), NKH, GCE, Lipoic acid-containing protein, Mitochondrial glycine cleavage system H-protein.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMSVRKFT EKHEWVTTEN  
GIGTVGISNF AQEALGDVVY CSLPEVGTKL NKQDEFGALE SVKAASELYS PLSGEVTEIN  
EALAENPLGV NKSCYEDGWL IKMTLSNPSE LDELMSEEAY EKYIKSIEE

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

The GCSH solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.15M NaCl and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

There are four mitochondrial proteins composing the enzyme system for cleavage of glycine (glycine cleavage system): P protein, H protein, T protein, and L protein. GCSH is the H protein. GCSH transfers the methylamine group of glycine from the P protein to the T protein. Mutations in this gene results in nonketotic hyperglycinemia (NKH).

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