

AR50106PU-N**Human GCSH (49-173, His-tag) - Purified****Alternate names:**

Glycine cleavage system H protein

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford)

Background:

The enzyme system for cleavage of glycine (glycine cleavage system) is composed of four mitochondrial protein components: P protein, H protein, T protein, and L protein. GCSH is the H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH).

Uniprot ID:[P23434](#)**NCBI:**[NP_004474](#)**GeneID:**[2653](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.**Description:**

Recombinant human GCSH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMVRKFT EKHEWTTEN GIGTVGISNF AQEALGDVVY
CSLPEVGTKL NKQDEFGALE SVKAASELYS PLSGEVTEIN EALAENPGLV NKSCYEDGWL
IKMTLSNPSE LDELMSEEAY EKYIKSIEE

Molecular weight: 16.4 kDa (149aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Kure S., et al. (2001) J Hum Genet. 46(7):378-84. Kovata H., et al. (1991) Am J Hum Genet. 48(2):351-61.

Pictures:

