

Recombinant human GCSH protein

Catalog Number: ATGP1281

PRODUCT INFORMATION

Expression system

E.coli

Domain

49-173aa

UniProt No.

P23434

NCBI Accession No.

NP_004474

Alternative Names

Glycine cleavage system protein H (aminomethyl carrier), GCE, NKH

PRODUCT SPECIFICATION

Molecular Weight

16.4 kDa (149aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGSM>SVRKFT EKHEWVTTEN GIGTVGISNF AQEALGDVVY CSLPEVGTKL
NKQDEFGALE SVKAASELYS PLSGEVTEIN EALAENPGLV NKSCYEDGWL IKMTLSNPSE LDELMSEEAY EKYIKSIEE

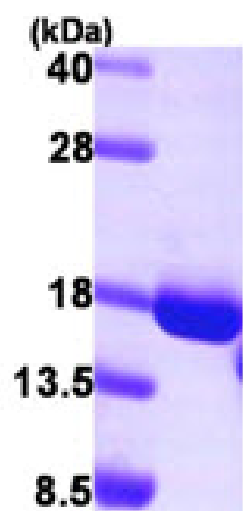
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)