

Recombinant Human Glycine Cleavage System Protein H (Aminomethyl Carrier), His-tagged

Cat. No. GCSH-1281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GCSH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
ProteinLength	49-173 aa
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).
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.
Molecular Weight	16.4 kDa (149aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford)

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMVSRKFT EKHEWVTEN GIGTVGISNF AQEALGDVVY CSLPEVGTKL NKQDEFGALE SVKAASELYS PLSGEVTEIN EALAENPGLV NKSCYEDGWL IKMTLSNPSE LDELMSEEAY EKYIKSIEE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	GCSH glycine cleavage system protein H (aminomethyl carrier) [Homo sapiens]
Official Symbol	GCSH
Synonyms	GCSH; glycine cleavage system protein H (aminomethyl carrier); GCE; NKH; glycine cleavage system H protein, mitochondrial; OTTHUMP00000174971; lipoic acid-containing protein; mitochondrial glycine cleavage system H-protein; Glycine cleavage system H protein, mitochondrial
Gene ID	2653
mRNA Refseq	NM_004483
Protein Refseq	NP_004474
MIM	238330
UniProt ID	P23434
Chromosome Location	16q23.2

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Function

aminomethyltransferase activity; enzyme binding

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