

Recombinant Human GCSH, His-tagged

Cat. No. GCSH-27469TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GCSH with N terminal His tag; 149 amino acids with tag, Predicted MWt 16.4 kDa.
Species	Human
Source	E.coli
ProteinLength	125 amino acids
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). The protein encoded by this gene 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). Two transcript variants, one protein-coding and the other probably not protein-coding, have been found for this gene. Also, several transcribed and non-transcribed pseudogenes of this gene exist throughout the genome.
Conjugation	HIS
Molecular Weight	16.400kDa inclusive of tags
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.02% DTT, 0.88% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMGMSVRKFTEKHEWVTTENGIGTVGISNFAQEAL GDVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNK SCYEDGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE
Sequence Similarities	Belongs to the gcvH family. Contains 1 lipoyl-binding domain.

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); glycine cleavage system H protein, mitochondrial; lipoic acid containing protein;
Gene ID	2653
mRNA Refseq	NM_004483
Protein Refseq	NP_004474
MIM	238330

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Uniprot ID	P23434
Chromosome Location	16q23.2
Function	aminomethyltransferase activity; enzyme binding;

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