Recombinant Human GCSH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GCSH-6266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GCSH MS Standard C13 and N15-labeled recombinant protein (NP_004474) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	18.91 kDa
AA Sequence	MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTEK HEWVTTENGIGTVGISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELY SPLSGEVTEINEALAENPGLVNKSCYEDGWLIKMTLSNPSELDELMSEEAYEKYIKSI

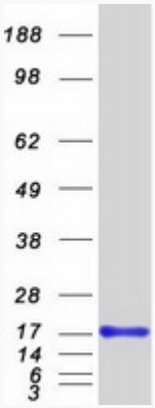
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	EETRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GCSH glycine cleavage system protein H [Homo sapiens (human)]
Official Symbol	GCSH
Synonyms	GCSH; glycine cleavage system protein H (aminomethyl carrier); glycine cleavage system H protein, mitochondrial; lipoic acid containing protein; lipoic acid-containing protein; mitochondrial glycine cleavage system H-protein; GCE; NKH;
Gene ID	2653
mRNA Refseq	NM_004483
Protein Refseq	NP_004474
MIM	238330

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UniProt ID	P23434
SDS-PAGE	

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