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Product datasheet for PH317886

GCSH (NM_004483) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GCSH MS Standard C13 and N15-labeled recombinant protein (NP_004474)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217886
Predicted MW:	18.91 kDa
Protein Sequence:	>RC217886 representing NM_004483 Red=Cloning site Green=Tags(s) MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTEKHEWVTTENGIGTVG ISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCYE DGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004474
RefSeq Size:	1161
RefSeq ORF:	519
Synonyms:	GCE; NKH
Locus ID:	2653
UniProt ID:	P23434

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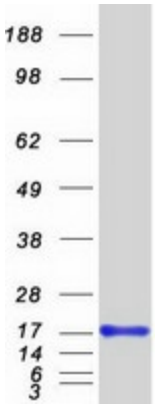
Cytogenetics: 16q23.2

Summary: 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.[provided by RefSeq, Jan 2010]

Product images:



Coomassie blue staining of purified GCSH protein (Cat# [TP317886]). The protein was produced from HEK293T cells transfected with GCSH cDNA clone (Cat# [RC217886]) using MegaTran 2.0 (Cat# [TT210002]).