

Product datasheet for **TP317886**

GCSH (NM_004483) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human glycine cleavage system protein H (aminomethyl carrier) (GCSH), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC217886 representing NM_004483 Red =Cloning site Green =Tags(s) |
| | MALRVRSVRALLCTLRVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFKTEKHEWVTTENGIGTVG ISNFAQEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLV NKSCYE DGWLIKMTLSNPSELDELMSEEAYEKYIKSIEE TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 13.8 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_004474 |
| Locus ID: | 2653 |
| UniProt ID: | P23434 |



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RefSeq Size: 1161

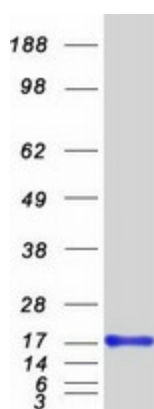
Cytogenetics: 16q23.2

RefSeq ORF: 519

Synonyms: GCE; NKH

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]).