9051 Mira Mesa Blvd, #910094
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GCSH Human

Glycine Cleavage System Protein H Human Recombinant
RCP0903

Product Overview

Name	GCSH Human
Description	
Glycine Cleavage System Protein H Human Recombinant	
Accession (Primary)	P23434
Synonyms	
Glycine cleavage system protein H (aminomethyl carrier), NKH, GCE, Lipoic acid-containing protein, Mitochondrial glycine cleavage system H-protein.	
Introduction	
There are four mitochondrial proteins composing the enzyme system for cleavage of glycine (glycine cleavage system): P protein, H protein, T protein, and L protein. GCSH is the H protein. GCSH transfers the methylamine group of glycine from the P protein to the T protein. Mutations in this gene results in nonketotic hyperglycinemia (NKH).	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The GCSH solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.15M NaCl and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGSM SVRKFT EKHEWVTTEN GIGTVGISNF AQEALGDVVY CSLPEVGTKL NKQDEFGALE SVKAASELYS PLSGEVTEIN EALAENPGLV NKSCYEDGWL IKMTLSNPSE LDELMSEEAY EKYIKSIEE	
Precautions	
GCSH Human is for research use only and not for use in diagnostic or therapeutic procedures.	

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Target Information: (P23434)