
Product Data Sheet

Product Name: GCSH Human

Cat. No.: GP23540

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glycine cleavage system protein H (aminomethyl carrier); NKH; GCE; Lipoic acid-containing protein; Mitochondrial glycine cleavage system H-protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSVRKFT EKHEWVTTEN GIGTVGISNF AQEALGDVVY CSLPEVGTKL NKQDEFGALE SVKAASELYS PLSGEVTEIN EALAENPGLV NKSCYEDGWL IKMTLSNPSE LDELMSEEAY EKYIKSIEE		
Formulation	The GCSH solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.15M NaCl and 10% glycerol.		

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).

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.

Background

GCSH Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 149 amino acids (48-173) and having a molecular mass of 16.4 kDa. GCSH is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
