
Product Data Sheet

Product Name: GCLM Human
 Cat. No.: GP21667
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutamate--cysteine ligase regulatory subunit; GCS light chain; Gamma-ECS regulatory subunit; Gamma-glutamylcysteine synthetase regulatory subunit; Glutamate--cysteine ligase modifier subunit; GCLM; GLCLR.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHTMGDSR AAKALLARAR TLHLQTGNLL NWGRLRKKCP STHSEELHDC IQKTLNEWSS QINPDLVREF PDVLECTVSH AVEKINPDER EEMKVSALF IVESNSSSST RSAVDMACSV LGVAQLDSVI IASPIEDGV NLSLEHLQPY WEELLENLVQS KKIVAIGTSD LDKTQLEQLY QWAQVKPNSN QVNLASCCVM PPDLTAFKQ FDIQLLTHND PKELLSEASF QEALQESIPD IQAHEWVPLW LLRYSVIVKS RGIKSKGYI LQAKRRGS.		
Formulation	The GCLM solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.15M NaCl.		

Introduction

Glutamate-cysteine ligase (GCLM) is the first rate limiting enzyme of glutathione synthesis. The GCLM enzyme is comprised of 2 subunits, a heavy catalytic subunit and a light regulatory subunit. GCLM deficiency is associated with some forms of hemolytic anemia.

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

GCLM Human Recombinant produced in E. coli is a single polypeptide chain containing 298 amino acids (1-274) and having a molecular mass of 33.3kDa. GCLM is fused to a 24

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

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amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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