

Recombinant Full Length Human GCLM Protein, C-Flag-tagged

Cat. No. GCLM-1237HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GCLM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	30.5 kDa
AA Sequence	MGTDSRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSS QINPDLVREFPDVL ECTVSHAVEKINPDEREEMKVS AKLFIVESNSSSSSTRSAVDMA CSVLGVAQLDSVIIASPIEDGVNLSL EHLQPYWEELENLVQSKKIVAIGTSDLDKTQ LEQLYQWAQVKPNSNQVNLASCCVMPPDLTAF AKQFDIQ LLTHNDPKELLSEASFQEALQESIPDIQAHEWVPLWLLRYSVIVKSRGIKSKGYILQA KRRGSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glutathione metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	GCLM glutamate-cysteine ligase modifier subunit [Homo sapiens (human)]
Official Symbol	GCLM
Synonyms	GLCLR
Gene ID	2730
mRNA Refseq	NM_002061.4
Protein Refseq	NP_002052.1

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MIM 601176

UniProt ID P48507



Coomassie blue staining of purified GCLM protein.

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