

Recombinant Full Length Human GCLM Protein, GST-tagged

Cat. No. GCLM-5175HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GCLM full-length ORF (AAH41809, 1 a.a. - 274 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	274 amino acids
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. [provided by RefSeq
Molecular Mass	55.88 kDa
AA Sequence	MGTD SRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSS QINPDLVREFPDVLECTVSHAVEKINPDEREEMKVS AKLFIVESNSSSSSTRSAVDMA CSVLGVAQLDSVIIASPIEDGVNLSLEHLQPYWEELENLVQSKKIVAIGTSDLDKTQL EQLYQWAQVKPNSNQVNLASCCVMPPDLTAF AKQFDIQLLTHNDPKELLSGASFQE ALQESIPDIQAHEWVPLWLLRYSVIVKSRGIKSKGYILQAKRRGS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

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	Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	GCLM glutamate-cysteine ligase, modifier subunit [Homo sapiens]
Official Symbol	GCLM
Synonyms	GCLM; glutamate-cysteine ligase, modifier subunit; GLCLR; glutamate--cysteine ligase regulatory subunit; gamma glutamylcysteine synthetase; GCS light chain; GSC light chain; gamma-ECS regulatory subunit; glutamate--cysteine ligase modifier subunit; glutamate-cysteine ligase regulatory protein; gamma-glutamylcysteine synthetase regulatory subunit; glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD);
Gene ID	2730
mRNA Refseq	NM_002061
Protein Refseq	NP_002052
MIM	601176
UniProt ID	P48507

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