

# Recombinant Full Length Human GCLM Protein, GST-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Human GCLM full-length ORF ( AAH41809, 1 a.a. - 274 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 274 amino acids                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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 |
| <b>Molecular Mass</b>   | 55.88 kDa                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MGTD SRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSS<br>QINPDLVREFPDVLECTVSHAVEKINPDEREEMKVS AKLFIVESNSSSSSTRSAVDMA<br>CSVLGVAQLDSVIIASPIEDGVNLSLEHLQPYWEELENLVQSKKIVAIGTSDLDKTQL<br>EQLYQWAQVKPNSNQVNLASCCVMPPDLTAFAKQFDIQLLTHNDPKELLSGASFQE<br>ALQESIPDIQAHEWVPLWLLRYSVIVKSRGIKSKGYILQAKRRGS                                                            |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)                                                                                                                                                                                                                                                                                      |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | GCLM glutamate-cysteine ligase, modifier subunit [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>  | GCLM                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | 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); |
| <b>Gene ID</b>          | 2730                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>      | NM_002061                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>   | NP_002052                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>              | 601176                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | P48507                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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