

## Recombinant Mouse Ctsg protein, His & GST-tagged

**Cat. No.** Ctsg-1105M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Mouse Ctsg aa. (Ile21~Thr261 (Accession # P28293) fused with N-terminal His & GST tag was produced in E. coli cells.                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Ile21~Thr261                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | This gene encodes a member of the peptidase S1 (chymotrypsin) family of serine endopeptidases. The encoded preproprotein is proteolytically processed to generate a mature protein product. This product appears to play a role in host defense, including inflammation and antigen processing. Homozygous knockout mice for this gene exhibit enhanced susceptibility to bacterial and fungal infection. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 56.9kDa.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Characteristic</b>   | The isoelectric point is 10.8.                                                                                                                                                                                                                                                                                                                                                                            |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

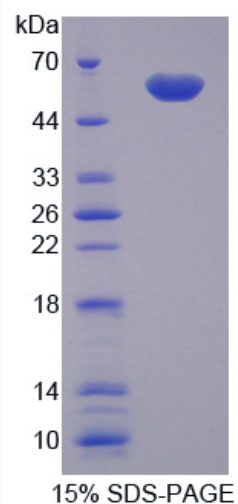
|                        |                                                          |
|------------------------|----------------------------------------------------------|
| <b>Gene Name</b>       | Ctsg cathepsin G [ <i>Mus musculus</i> (house mouse) ]   |
| <b>Official Symbol</b> | Ctsg                                                     |
| <b>Synonyms</b>        | Ctsg; cathepsin G; VSP; CatG; vimentin-specific protease |
| <b>Gene ID</b>         | 13035                                                    |
| <b>mRNA Refseq</b>     | NM_007800.2                                              |
| <b>Protein Refseq</b>  | NP_031826.1                                              |
| <b>UniProt ID</b>      | P28293                                                   |

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SDS-PAGE



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