

## Recombinant Mouse Ctsw protein, His & T7-tagged

**Cat. No.** Ctsw-8184M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Mouse Ctsw aa. (Asp22~Pro371 (Accession # P56203)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Asp22~Pro371                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. The encoded preproprotein is proteolytically processed to generate a mature protein product. Expression of the encoded protein is upregulated following lymphocyte activation. Data from a human cell line suggests that the encoded enzyme may be important for viral entry into host cells. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 43.6kDa.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | The isoelectric point is 9.2.                                                                                                                                                                                                                                                                                                                                                       |

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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 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.                                                                                                                                                                                                                                                                                                                               |
| <b>Reconstitution</b>   | Reconstitute in sterile ddH <sub>2</sub> O.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | Ctsw cathepsin W [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | Ctsw                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | Ctsw; cathepsin W; lymphopain                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene ID</b>          | 13041                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>      | NM_009985.5                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_034115.2                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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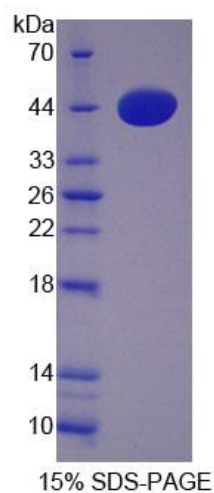
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UniProt ID

P56203

SDS-PAGE

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