

## Active Recombinant Mouse Cst7, Fc-tagged

**Cat. No.** Cst7-7391M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cst7 (O89098) (Met1-Gln144), fused with the Fc region of human IgG1 at the C-terminus, was expressed in human cells.
<b>Species</b>	Mouse
<b>Source</b>	Human Cells
<b>ProteinLength</b>	1-144 a.a.
<b>Predicted N Terminal</b>	Ala 19
<b>Form</b>	Lyophilized from sterile 25mM Tris, 0.15M NaCl, pH 7.5. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 is < 6 nM.
<b>Molecular Mass</b>	The recombinant mouse CST7 /Fc is a disulfide-linked homodimer. The reduced monomer comprises 367 amino acids and has a predicted molecular mass of 41.4 KDa. The apparent molecular mass of the protein is approximately 42 KDa in SDS-PAGE under reducing conditions due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 93 % as determined by SDS-PAGE

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C
<b>Storage</b>	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	A hardcopy of COA with reconstitution instruction is sent along with the products.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	Cst7 cystatin F (leukocystatin) [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Cst7
<b>Synonyms</b>	Cst7; cystatin F (leukocystatin); Cmap; cystatin-F; cystatin 7; cystatin-7; cystatin-like metastasis-associated protein
<b>Gene ID</b>	13011
<b>mRNA Refseq</b>	NM_009977
<b>Protein Refseq</b>	NP_034107
<b>UniProt ID</b>	O89098
<b>Chromosome Location</b>	2; 2 G1-G3

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**Function**

cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity

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