

Active Recombinant Mouse Cst7, Fc-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Cst7 (O89098) (Met1-Gln144), fused with the Fc region of human IgG1 at the C-terminus, was expressed in human cells.
Species	Mouse
Source	Human Cells
ProteinLength	1-144 a.a.
Predicted N Terminal	Ala 19
Form	Lyophilized from sterile 25mM Tris, 0.15M NaCl, pH 7.5. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Bio-activity	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 is < 6 nM.
Molecular Mass	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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 93 % as determined by SDS-PAGE

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	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.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.
Shipping	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

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

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Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity
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