

Active Recombinant Mouse Cystatin E/M, His-tagged

Cat. No. Cst6-5618M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cst6 protein was expressed in Murine myeloma cell line with a C-terminal 10-His tag. Glu29 Val149 & Thr35 Val149.
Species	Mouse
Source	Mammalian Cells
Description	Cst6 is a member of family 2 of the cystatin super family. It is required for viability and for correct formation of cornified layers in the epidermis and hair follicles, as chq mice with a null mutation in the Cst6 gene have defects in epidermal cornification and die between 5 and 12 days of age. Cst6 expression and function may not be limited to cutaneous epithelia.
Form	Lyophilized from a 0.2 µm filtered solution in MES and NaCl.
N-terminal Sequence	Glu29 & Thr35
Molecular Weight	19 kDa
Activity	Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FRAMC. The IC ₅₀ value is < 7 nM, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	20 kDa, reducing conditions

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Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile 25 mM MES, 150 mM NaCl, pH 6.5
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, 20 to 70°C as supplied. 3 months, 20 to 70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Cst6 cystatin E/M [Mus musculus]
Official Symbol	Cst6
Synonyms	Cst6;cystatin E/M; ichq; N28197; 1110017E11Rik; Uncharacterized protein; mCG_11738
Gene ID	73720
mRNA Refseq	NM_028623
Protein Refseq	NP_082899
UniProt ID	Q9D1B1
Chromosome Location	19 A; 19 4.0 cM

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