

Recombinant Human CST7 protein, His-tagged

Cat. No. CST7-3150H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CST7 protein (Gly42-His167), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	126
Description	Cystatin-7 (CST7) is also known as Cystatin-F, Cystatin-like metastasis-associated protein (CMAP), Leukocystatin, which is a disulfide-linked homodimer belongs to the cystatin family. CST7 is primarily expressed in peripheral blood cells and spleen. CST7 inhibits papain and cathepsin L but with affinities lower than other cystatins. CST7 may play a role in immune regulation through inhibition of a unique target in the hematopoietic system.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 15.6 kDa. The protein migrates as 20-24 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

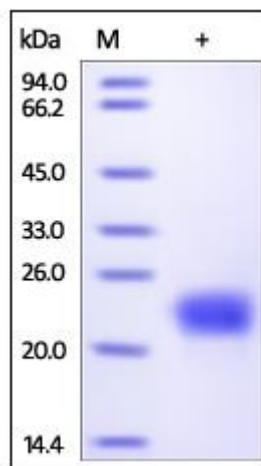
Gene Name	CST7
Official Symbol	CST7
Synonyms	CST7; cystatin F (leukocystatin); cystatin-F; cystatin-7; leukocystatin; cystatin-like metastasis-associated protein; CMAP
Gene ID	8530
mRNA Refseq	NM_003650
Protein Refseq	NP_003641
MIM	603253
UniProt ID	O76096

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SDS-PAGE of CST7-3150H



Human Cystatin F, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.