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# 37-1081: Human Cystatin 7 / CST7 Recombinant Protein (Fc Tag)(Discontinued)

**Reactivity :** Human
**Alternative Name :** CMAP Protein,

## Description

**Source : HEK293 Cells**
The cystatin superfamily members are important natural cysteine protease inhibitors present in a wide variety of organisms and are divided into three classes. Cystatin F, also known as leukocystatin and CMAP (Cystatin-like Metastasis-Associated Protein), is a type 2 cystatin and its expression is limited to hematopoietic cells, with the highest expression levels being observed in monocytes, dendritic cells, and certain types of T-cells. Furthermore, cystatin F mRNA becomes up-regulated during dendritic cell maturation, and thus suggests a specific role of cystatin F in immune regulation. Cystatin F is produced as a dimer, an inactive cathepsin inhibitor which is activated by chemical reduction. In addition, Cystatin F and its homologues have been observed expressing in various human cancer cell lines established from malignant tumors, and thus indicates a new diagnosis and prevention approach of certain human carcinomas metastasis.

## Product Info

| | |
|---|---|
| **Amount :** | Human Cystatin 7 / CST7 Recombinant Protein (Fc Tag)(Discontinued) / 20 µg |
| **Purification :** | > 97 % as determined by SDS-PAGE |
| **Content :** | Formulation Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. |
| **Storage condition :** | 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. |
| **Amino Acid :** | Met1-His145 |

## Application Note

Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 value is <5 nM.
Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method

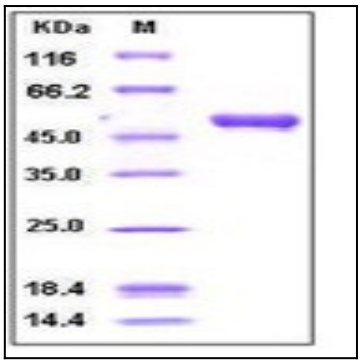


Fig 1: Human Cystatin 7 / CST7 Recombinant Protein (Fc Tag)