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37-1082: Human Cystatin 7 / CST7 Recombinant Protein (His 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 (His Tag)(Discontinued) / 20 µg
Purification :	> 92 % as determined by SDS-PAGE
Content :	Formulation Lyophilized from sterile PBS, pH 7.4 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 <6 nM.
Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method

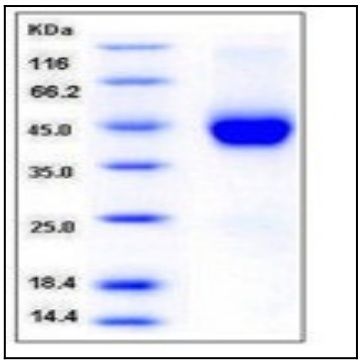

Fig 1: Human Cystatin 7 / CST7 Recombinant Protein (His Tag)