

Datasheet for ABIN7195336 **CST7 Protein (Fc Tag)**

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Overview

Quantity:	20 µg
Target:	CST7
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CST7 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Cystatin 7/CST7 Protein (Fc Tag)(Active)
Sequence:	Met 1-His 145
Characteristics:	A DNA sequence encoding the human Cystatin F precursor (NP_003641.3) (Met 1-His 145) was expressed with the fused Fc region of human IgG1 at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC (R&D Systems, Catalog#ES008). The IC50 value is <5 nM.

Target Details

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Target Details

Alternative Name: Cystatin 7/CST7 ([CST7 Products](#))

Background: 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.

Synonym: Cystatin-F, Cystatin-7, Cystatin-Like Metastasis-Associated Protein, CMAP, Leukocystatin, CST7

Molecular Weight: 41.3 kDa

NCBI Accession: [NP_003641](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.