Datasheet for ABIN7195338

CST7 Protein (His tag)

Go to Product page

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 His tag.

Product Details

Purpose:	Recombinant Human Cystatin 7/CST7 Protein (His 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 a polyhistidine tag at the C-terminus.
Purity:	> 92 % 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 <6 nM.

Target Details

Target:	CST7

Copyright antibodies-online. All rights reserved.

Target Details

Alternative Name:	Cystatin 7/CST7 (CST7 Products)
Background:	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:	16.1 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 PBS, pH 7.4
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.