

## Recombinant Human CST7, His-tagged

**Cat. No.** CST7-103H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Recombinant human CST7, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### Species

Human

#### Source

Insect Cells

#### Description

CST7, also known as cystatin-F, contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. This gene encodes a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system. Expression of the protein has been observed in various human cancer cell lines established from malignant tumors.

#### Form

Liquid. In phosphate buffered saline (pH7.4).

#### Molecular Mass

15.3kDa (132aa) (18-28kDa in SDS-PAGE under reducing conditions.)

#### AA Sequence

GPSPDTC SQD LNSRVKPGFP KTIKTNDPGV LQAARYSVEK FNNCTNDMFL  
FKESRITRAL VQIVKGLKYM LEVEIGRTTC KKNQHLRLDDCDFQTNHTLK  
QTLSCYSEVW VVPWLQHFV PVL RCHHHHH HH

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<b>Endotoxin</b>	< 1.0 eu per 1 microgram of protein (determined by lal)
<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5mg/ml (determined by absorbance at 280nm)

## GENE INFORMATION

<b>Gene Name</b>	CST7 cystatin F (leukocystatin) [ Homo sapiens ]
<b>Official Symbol</b>	CST7
<b>Synonyms</b>	CST7; cystatin F (leukocystatin); cystatin-F; cystatin-7; leukocystatin; cystatin-like metastasis-associated protein; CMAP;
<b>Gene ID</b>	8530
<b>mRNA Refseq</b>	NM_003650
<b>Protein Refseq</b>	NP_003641
<b>MIM</b>	603253
<b>UniProt ID</b>	O76096
<b>Chromosome Location</b>	20p11.21
<b>Function</b>	cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity;

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