

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	GPSPDTCSQD LNSRVKPGFP KTIKTNDPGV LQAARYSVEK FNNCTNDMFL FKESRITRAL VQIVKGLKYM LEVEIGRTTC KKNQHLRLDDCDFQTNHTLK QTLSCYSEVW VVPWLQHFV PVL RCHHHHHH HH

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Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>95% by SDS - PAGE
Storage	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.
Concentration	0.5mg/ml (determined by absorbance at 280nm)

GENE INFORMATION

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

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