

Recombinant Human CST6, His-tagged

Cat. No. CST6-26432TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CST6 with an N terminal His tag; 142 amino acids with tag, MWt 15.9 kDa.
Species	Human
Source	E.coli
ProteinLength	121 amino acids
Description	The cystatin superfamily encompasses proteins that 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, where they appear to provide protective functions. This gene encodes a cystatin from the type 2 family, which is down-regulated in metastatic breast tumor cells as compared to primary tumor cells. Loss of expression is likely associated with the progression of a primary tumor to a metastatic phenotype.
Conjugation	HIS
Molecular Weight	15.900kDa inclusive of tags
Tissue specificity	Restricted to the stratum granulosum of normal skin, the stratum

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	granulosum/spinosum of psoriatic skin, and the secretory coils of eccrine sweat glands. Low expression levels are found in the nasal cavity.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMRPQERMVGELRDLSPDDPQVQKAAQAAVASYN MGSNSIYYFRDTHIIKAQSQLVAGIKYFLTMEMGSTDCRKTRVTGDHVDLTTCPLAA GAQQEKLRCDFEVLVVPWQNSSQLLKHNCVQM
Sequence Similarities	Belongs to the cystatin family.

GENE INFORMATION

Gene Name	CST6 cystatin E/M [Homo sapiens]
Official Symbol	CST6
Synonyms	CST6; cystatin E/M; cystatin-M;
Gene ID	1474
mRNA Refseq	NM_001323

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Protein Refseq	NP_001314
MIM	601891
Uniprot ID	Q15828
Chromosome Location	11q13
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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