

Recombinant Human CST9, His-tagged

Cat. No. CST9-26433TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CST9 with N terminal His tag; 152 amino acids with tag, Predicted MWt 17.2 kDa.
Species	Human
Source	E.coli
ProteinLength	131 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. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a secreted protein that may play a role in hematopoietic differentiation or inflammation.
Conjugation	HIS
Molecular Weight	17.200kDa inclusive of tags
Tissue specificity	Expressed in heart, placenta, lung, liver, skeletal muscle and pancreas. Not

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	expressed in brain. Barely expressed in tumor cell lines except for breast adenocarcinoma MCF-7 cells and U251 cells.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 2.4% Urea, 10% Glycerol
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMWCSEEEMGGNNKIVQDPMF LATVEFALNTFNVQ SKEEHAYRLLRVLSSWREDSMDRK WRGKMVFSMNLQLRQTVCRKFEDDIDNCPF QESLELNNVR QGISFPQVHSCGCCMGCGVGTGAADKAIPRDGK
Sequence Similarities	Belongs to the cystatin family.

GENE INFORMATION

Gene Name	CST9 cystatin 9 (testatin) [Homo sapiens]
Official Symbol	CST9
Synonyms	CST9; cystatin 9 (testatin); cystatin-9; CLM;
Gene ID	128822
mRNA Refseq	NM_001008693
Protein Refseq	NP_001008693

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Uniprot ID	Q5W186
Chromosome Location	20p11.21
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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