

Recombinant Human CST1, His-tagged

Cat. No. CST1-27161TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 21-141 of Human Cystatin SN with N terminal His tag; 145 amino acids, 16.9kDa.
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. 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 cysteine proteinase inhibitor found in saliva, tears, urine, and seminal fluid.
Conjugation	HIS
Molecular Weight	16.900kDa inclusive of tags
Tissue specificity	Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein

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	level). Expressed in saliva, tears, urine and seminal fluid.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 10% Glycerol, 0.58% Sodium chloride, 0.32% Tris HCl, 0.03% DTT
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	MGSSHHHHHSSGLVPRGSHMGSMWSPKEEDRIIPGGIYN ADLNDEWVQRALHF AISEYNKATKDDYYRRPLRVLRARQQ TVGGVNYFFDVEVGRITCKSQPNLDTCAF HEQPELQKKQ LCSFEIYVPWENRRSLVKS RCQES
Sequence Similarities	Belongs to the cystatin family.

GENE INFORMATION

Gene Name	CST1 cystatin SN [Homo sapiens]
Official Symbol	CST1
Synonyms	CST1; cystatin SN; cystatin-SN;
Gene ID	1469
mRNA Refseq	NM_001898
Protein Refseq	NP_001889

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MIM	123855
Uniprot ID	P01037
Chromosome Location	20p11.2
Pathway	Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem;
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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