

## Recombinant Human Cystatin SN, His-tagged

**Cat. No.** CST1-1332H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CST1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	CST1 is a member of the type 2 salivary cystatin family found in a variety of fluids and secretions, including plasma, tears, and saliva. 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. CST1 was upregulated in cancerous lesions of gastric cancer tissues compared to noncancerous regions and clinicopathological analysis showed a significant correlation between high expression of CST1.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 10% glycerol, 100 mM NaCl.
<b>Molecular Weight</b>	16.9 kDa (145 aa), confirmed by MALDI-TOF
<b>Purity</b>	> 95 % by SDS-PAGE
<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>Sequences of amino</b>	MGSSHHHHHH SSSLVPRGSH MGSMWSPKEE DRIIPGGIYN ADLNDEWVQR

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<b>acids</b>	ALHFAISEYN KATKDDYYRR PLRVLRARQQ TVGGVNYFFD VEVGRTICK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVW WENRRSLVKS RCQES
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Pathways</b>	Salivary secretion
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CST1 cystatin SN [ Homo sapiens ]
<b>Official Symbol</b>	CST1
<b>Synonyms</b>	CST1; cystatin SN; cystatin-SN; cystatin 1; cystatin-1; cystatin-SA-I; cystatin SA-I; OTTHUMP00000030444; OTTHUMP00000164184; salivary cystatin-SA-1; cysteine proteinase inhibitor, type 2 family
<b>Gene ID</b>	1469
<b>mRNA Refseq</b>	NM_001898
<b>Protein Refseq</b>	NP_001889
<b>MIM</b>	123855
<b>UniProt ID</b>	P01037
<b>Chromosome Location</b>	20p11.2
<b>Function</b>	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity

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