

Recombinant Human Cystatin SN, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CST1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 10% glycerol, 100 mM NaCl.
Molecular Weight	16.9 kDa (145 aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS-PAGE
Concentration	1mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGSMWSPKEE DRIIPGGIYN ADLNDEWVQR

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acids	ALHFAISEYN KATKDDYYRR PLRVLRARQQ TVGGVNYFFD VEVGRTICTK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVW WENRRSLVKS RCQES
Storage	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.
Pathways	Salivary secretion
GENE INFORMATION	
Gene Name	CST1 cystatin SN [Homo sapiens]
Official Symbol	CST1
Synonyms	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
Gene ID	1469
mRNA Refseq	NM_001898
Protein Refseq	NP_001889
MIM	123855
UniProt ID	P01037
Chromosome Location	20p11.2
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity

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