

# Recombinant human Cystatin SN protein

Catalog Number: ATGP1332

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

21-141aa

**UniProt No.**

P01037

**NCBI Accession No.**

NP\_001889

**Alternative Names**

cystatin SN, Cystatin-SA-I, Cystatin-1, Cystatin-SN, Salivary cystatin-SA-1

## PRODUCT SPECIFICATION

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**Molecular Weight**

16.9 kDa (145aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

CST1 (Cystatin-SN) 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. Recombinant human CST1 protein, fused to His-tag at N-terminus, was

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expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSM>WSPKEE DRIIPGGIYN ADLNDEWVQR ALHFAISEYN KATKDDYYRR  
PLRVLRARQQ TVGGVNYFFD VEVGRTICTK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVW WENRRSLVKS RCQES

## General References

Choi EH, et al. (2009) Clin Chim Acta. 406(1-2):45-51.

Ryan C.M., et al. (2010) J. Am. Soc. Mass Spectrom. 21:908-917

## DATA

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### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

