

Recombinant human Cystatin SN protein

Catalog Number: ATGP1332

PRODUCT INFORMATION

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

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

> 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

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

SDS-PAGE

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

