

# Recombinant human Cystatin A protein

Catalog Number: ATGP0983

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-98aa

### UniProt No.

P01040

### NCBI Accession No.

NP\_005204

### Alternative Names

Cystatin-A, STF1, STFA

## PRODUCT SPECIFICATION

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### Molecular Weight

13.1 kDa (118aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### 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

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### Description

CSTA, also known as Stefin A, is thiol protease inhibitors that form complexes with papain and the cathepsins B, H and L. The protein is one of the precursor proteins of the cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. CSTA is thought to be a tumor suppressor, since an inverse correlation seems to exist between the level of CSTA and tumor progression, in several malignancies. Recombinant human CSTA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYIYKVRAG  
DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN KDELDTGF

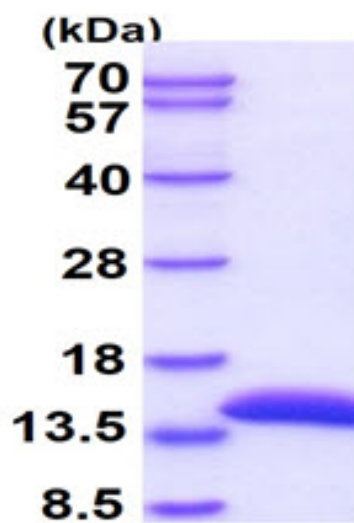
## General References

Takai T., et al. (2009) J Immunol. 183(12):7958-65.  
Sinha AA., et al. (2008) Anticancer Res. 28(4B):2271-7.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)