# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-98aa

**UniProt No.** P01040

NCBI Accession No. NP\_005204

**Alternative Names** Cystatin-A, STF1, STFA

# **PRODUCT SPECIFICATION**

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

### 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.



## **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYYIKVRAG DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN KDDELTGF

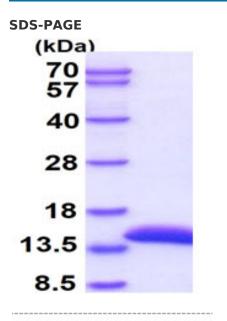
coomassie blue stain.

3ug by SDS-PAGE under reducing condition and visualized by

## **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



15% SDS-PAGE (3ug)

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