

## Recombinant Human Cystatin A, His-tagged

**Cat. No.** CSTA-3489H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CSTA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol
<b>Molecular Weight</b>	13.1 kDa (118aa), confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by BCA assay)
<b>Sequences of amino acids</b>	MGSSHHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYYIKVRAG DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN KDELDTGF

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**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.

## GENE INFORMATION

**Gene Name** CSTA cystatin A (stefin A) [ Homo sapiens ]

**Synonyms** CSTA; cystatin A (stefin A); STF1; STFA; CSTA; Cystatin-A; Cystatin-AS; cystatin A; cystatin AS; stefin A

**Gene ID** 1475

**mRNA Refseq** NM\_005213

**Protein Refseq** NP\_005204

**MIM** 184600

**UniProt ID** P01040

**Chromosome Location** 3q21

**Function** cysteine-type endopeptidase inhibitor activity; protease binding; protein binding, bridging; structural molecule activity

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