

Recombinant Human Cystatin A, His-tagged

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

SPECIFICATION

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