

Active Recombinant Human CSTA protein, His-tagged

Cat. No. CSTA-203H **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
Bio-activity	The IC ₅₀ value is < 1.0nM. The inhibitory function of Cystatin A on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.
Molecular Mass	13.1 kDa (118aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYYIKVRAG DNKYMHLKVKFSLPGQNEDL VLTGYQVDKN KDELDTGF

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Purity	> 95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by BCA assay)
GENE INFORMATION	
Gene Name	CSTA cystatin A (stefin A) [Homo sapiens]
Official Symbol	CSTA
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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