

## Recombinant Human CST4 Protein, His-tagged

**Cat. No.** CST4-378H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CST4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	CST4, also known as Cystatin-S, belongs to the cystatin family. It is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function. This protein strongly inhibits papain and ficin, partially inhibits stem bromelain and bovine cathepsin C, but does not inhibit porcine cathepsin B or clostripain. Papain is inhibited non-competitively.
<b>Form</b>	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Molecular Mass</b>	15.4kDa (131aa) confirmed by MALDI-TOF 13.5-18kDa (SDS-PAGE under reducing conditions.)
<b>AA Sequence</b>	ADPMSSSKEE NRIIPGGIYD ADLNDEWVQR ALHFAISEYN KATEDEYYRR PLQVLRAREQ TFGGVNYFFD VEVGRTICTK SQPNLDTCAFHEQPELQKKQ LCSFEIYEVP WEDRMSLVNS RCQEAHHHHH H
<b>Endotoxin</b>	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1mg/ml (determined by Absorbance at 280nm)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CST4 cystatin S [ Homo sapiens ]
<b>Official Symbol</b>	CST4
<b>Synonyms</b>	CST4; cystatin S; cystatin-S; cystatin 4; cystatin-4; cystatin-SA-III; salivary acidic protein 1; MGC71923;
<b>Gene ID</b>	1472
<b>mRNA Refseq</b>	NM_001899
<b>Protein Refseq</b>	NP_001890
<b>MIM</b>	123857
<b>UniProt ID</b>	P01036
<b>Chromosome Location</b>	20p11.2
<b>Pathway</b>	Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem;

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**Function**

cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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