

Recombinant Human CST4 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CST4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	15.4kDa (131aa) confirmed by MALDI-TOF13.5-18KDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPMSSSKKEE NRIIPGGIYD ADLNDEWVQR ALHFAISEYN KATEDEYYRR PLQVLRAREQ TFGGVNYFFD VEVGRTICK SQPNLDTCAFHEQPELQKKQ LCSFEIYEVW WEDRMSLVNS RCQEAHHHHH H
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	1mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	CST4 cystatin S [Homo sapiens]
Official Symbol	CST4
Synonyms	CST4; cystatin S; cystatin-S; cystatin 4; cystatin-4; cystatin-SA-III; salivary acidic protein 1; MGC71923;
Gene ID	1472
mRNA Refseq	NM_001899
Protein Refseq	NP_001890
MIM	123857
UniProt ID	P01036
Chromosome Location	20p11.2
Pathway	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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