

# Product information

## Cystatin-S, 21-141aa

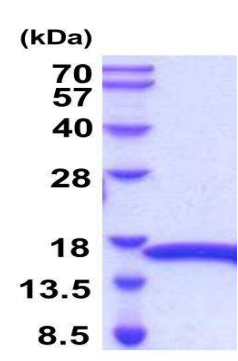
Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3223

NCBI Accession No.: NP\_001890

Synonyms: CST4

**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. Recombinant human CST4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.</p> <p><b>Molecular Weight:</b> 15.4kDa (131aa) confirmed by MALDI-TOF 13.5-18kDa (SDS-PAGE under reducing conditions.)</p> <p><b>N- terminal Sequence Analysis:</b> Ala-Asp-Pro-Met-Ser</p> <p><b>Purity:</b> &gt; 95% by SDS – PAGE.</p> <p><b>Concentration:</b> 1mg/ml (determined by Absorbance at 280nm)</p> <p><b>Endotoxin Level:</b> &lt; 1.0 EU per 1µg of protein (determined by LAL method)</p>	 <p>(kDa)</p> <p>70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
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### Sequences of amino acids:

ADPMSSSKEE NRIIPGGIYD ADLNDEWVQR ALHFAISEYN KATEDEYYRR PLQVLRAREQ TFGGVNYFFD VEVGRTICTK SQPNLDTCAF  
HEQPQLQKKQ LCSFEIYEVP WEDRMSLVNS RCQEAIHHHH H

### General references:

- Isemura S., *et al.* (1984) *J. Biochem.* 96:1311-1314.  
 Ryan C.M., *et al.* (2010) *J. Am. Soc. Mass Spectrom.* 21:908-917.

**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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.