

# Product information

## Cst3, 21-140aa

Rat, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3313

**Full name:** Cystatin-C

**NCBI Accession No.:** NP\_036969

**Synonyms:** CST3, CYSC

**Description:** CST3, also known as cystatin-C, is secreted type 2 cysteine proteinase inhibitors of the cystatin superfamily. It is involved in processes such as tumor invasion and metastasis, inflammation and some neurological diseases. It inhibits many cysteine proteases such as papain and cathepsins B, H, K, L and S. Recombinant rat CST3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:** 14.3kDa (128aa)

13.5-18kDa (SDS-PAGE under reducing conditions.)

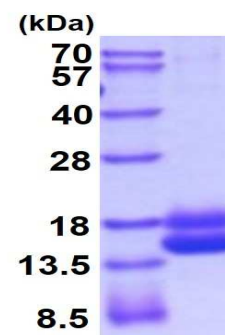
**Predicted N terminal:** Gly21

**Purity:** > 95% by SDS - PAGE.

**Concentration:** 0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)

**Biological activity:** The IC<sub>50</sub> value is < 1.0nM. The inhibitory function of Cystatin 3 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.



15% SDS-PAGE (3ug)

### Sequences of amino acids:

GTSRPPPRLL GAPQEADASE EGVQRALDFA VSEYNKGSND AYHSRAIQVV RARKQLVAGI NYYLDVEMGR TTCTKSQTNL TNCPFHDQPH  
LMRKALCSFQ IYSVPWKGTH TLTKSSCKNA LEHHHHHH

### General references:

Reed CH., *et al.* (2000) *Br J Biomed. Sci.* 57:323-329.

Esnard A., *et al.* (1992) *FEBS Lett.* 300:131-135.

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



Manufactured for:

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# Product information

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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.

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