

RP00110

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# Recombinant Human Cystatin-C/CST3 Protein

Catalog No.: RP00110 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1471	P01034

### Tags

C-His

### Synonyms

ARMD11; HEL-S-2;CST3;HEL-S-2

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions.

## Basic Information

### Description

Recombinant Human Cystatin-C/CST3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Ala146) of human Cystatin C/CST3 (Accession #NP\_000090.1) fused with a 6×His tag at the C-terminus.

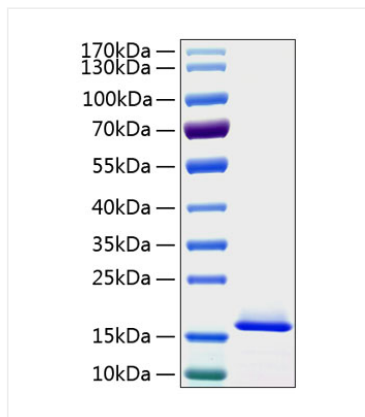
### Bio-Activity

Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AMC. The IC50 value is <11 nM.

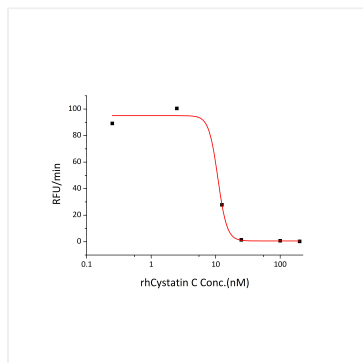
### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Human Cystatin-C/CST3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 17 kDa.



Recombinant Human CST3 inhibits papain cleavage of a fluorogenic peptide substrate Z-FR-AMC (Catalog # ES009). The IC50 value is <math>< 11 \text{ nM}</math>.