# Recombinant Human Cystatin-C/CST3 Protein

## Catalog No.: RP00110

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## Sequence Information

**Species**
Human

**Gene ID**
1471

**Swiss Prot**
P01034

**Tags**
C-His

**Synonyms**
ARMD11, HEL-S-2,CST3,HEL-S-2

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
16.64 kDa

**Observed MW**
15-25 kDa

**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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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.

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

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

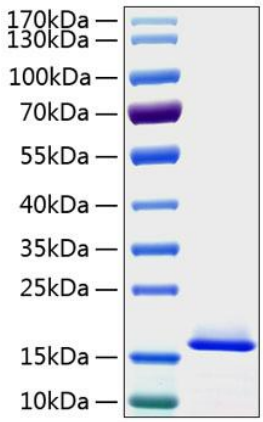
**Contact**

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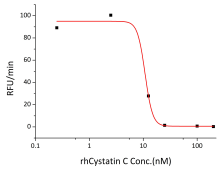


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## Validation Data




Recombinant Human Cystatin-C/CST3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




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