

Recombinant Human Cystatin-A/CSTA Protein

Catalog No.: RP00043

Sequence Information

Species **Gene ID**
Human 1475

Swiss Prot **Tags**
P01040 C-His

Synonyms
CSTA,AREI,PSS4,STF1,STFA

Product Information

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

Calculated MW **Observed MW**
11.85 kDa 14 kDa

Endotoxin
< 1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of 20mM Tris, 150mM
NaCl, pH 8.0. 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 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 kininogens. This gene encodes a stefin that functions as a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. The protein is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Stefins have been proposed as prognostic and diagnostic tools for cancer.

Basic Information

Description

Recombinant Human Cystatin-A/CSTA Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1–Phe98) of human Cystatin-A (Accession #NP_005204.1) 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 <0.7 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°C

Operational Notes

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

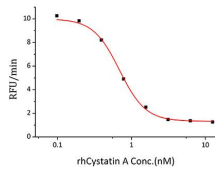
Contact

☎ | 400-999-6126

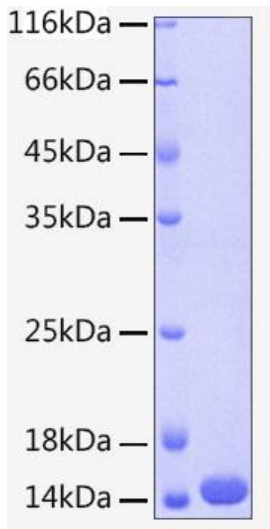
✉ | cn.market@abclonal.com.cn

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Validation Data



Recombinant Human OSM inhibits papain cleavage of a fluorogenic peptide substrate Z-FR-AMC. The IC₅₀ value is <0.7 nM.



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