

Recombinant Human Cystatin-S/CST4 Protein

Catalog No.: RP00994

Sequence Information

Species **Gene ID**
Human 1472

Swiss Prot **Tags**
P01036 C-His

Synonyms
CST4

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
15.03 kDa 15–20 kDa

Endotoxin
< 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 free-thaw cycles.

Background

Basic Information

Description

Recombinant Human Cystatin-S/CST4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser21–Ala141) of human Cystatin S (Accession #NP_001890.1) fused with a 6×His tag at the C-terminus.

Activity

Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC₅₀ value approximately is 26.3 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.

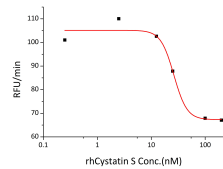
Contact

☎ | 400-999-6126

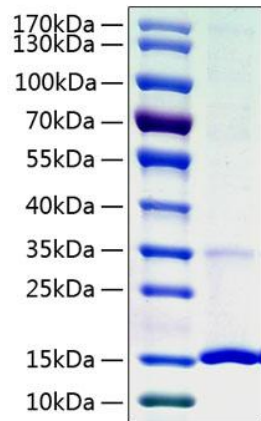
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Validation Data



Recombinant human CST4 inhibits active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC (Catalog#ES008). The IC50 value approximately is 26.3 nM.



Recombinant Human Cystatin-S/CST4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.