Recombinant Human Cystatin-M/CST6 Protein

Catalog No.: RP00236

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Sequence Information

Species
Human

Gene ID
1474

Swiss Prot
Q15828

Tags
C-His

Synonyms
CST6

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
14.43 kDa

Observed MW
15, 17 kDa

Endotoxin
< 0.01 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

Cystatin E/M encoded by the CST6 gene is a member of family 2 of the cystatin superfamily. It inhibits papain and cathepsin B, two of the cysteine proteases. Its mRNA was found in many tissues by the two groups who did initial cloning. However, its protein was found only in skin and sweat glands by a third group. In addition to being a cysteine protease inhibitor, cystatin E /M is also a substrate for transglutaminases. It is required for viability and for correct formation of cornified layers in the epidermis and hair follicles, as ichq mice, with a null mutation in the cystatin E/M gene, have defects in epidermal cornification and die between 5 and 12 days of age. Cystatin E/M expression and function may not be limited to cutaneous epithelia. For example, it is found in rat brain and is induced during neuronal cell differentiation.

Basic Information

Description
Recombinant Human Cystatin-M/CST6 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Arg29-Met149) of human CST6 (Accession #NP_001314.1) 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 approximately 16 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℃

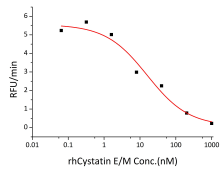
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

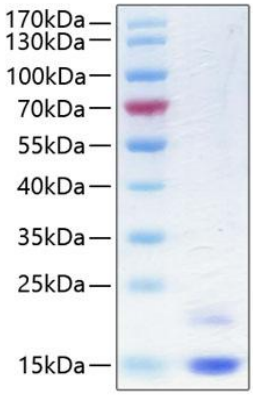
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Validation Data



Recombinant Human CST6 inhibits papain cleavage of a fluorogenic peptide substrate Z-FR-AMC (Catalog # ES009). The IC50 value is approximately 16nM.



Recombinant Human Cystatin-M/CST6 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.