Recombinant Rat Cystatin-C/CST3 Protein

Catalog No.: RP01668

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Sequence Information

Species	Gene ID
Rat	25307
Swiss Prot	**Tags**
P14841	C-6His

Synonyms

CYSC; Cystatin-C; CST3

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
14.17 kDa	18-25 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM HEPES and 150 mM NaCl, pH 7.0

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 C, also known as Cystatin-3 (CST3) is a secreted type 2 cysteine protease inhibitor synthesized in all nucleated cells, has been proposed as a replacement for serum creatinine for the assessment of renal function, particularly to detect small reductions in glomerular filtration rate.

Basic Information

Description

Recombinant Rat Cystatin-C/CST3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly 21-Ala140) of rat Cystatin-C/CST3 (Accession #NP_036969.1) fused with and 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 (Catalog # ES009). The IC50 value is <3.4 nM, under the described conditions.

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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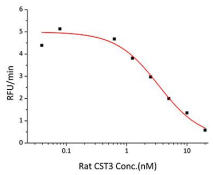
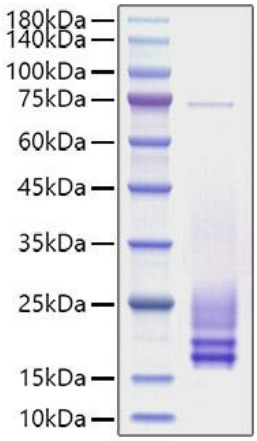
Validation Data



Recombinant Rat CST3 inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AMC (Catalog # ES009). The IC50 value is <3.4 nM, under the described conditions.



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