

Recombinant Rat Cystatin-C/CST3 Protein

Catalog No.: RP01668 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	25307	P14841

Tags

C-6His

Synonyms

CYSC[Cystatin-C]CST3

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Calculated MW	Observed MW
14.17 kDa	18-25 kDa

Endotoxin

<0.1EU/μg

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

Contact

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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 6xHis tag at the C-terminus.

Bio-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.

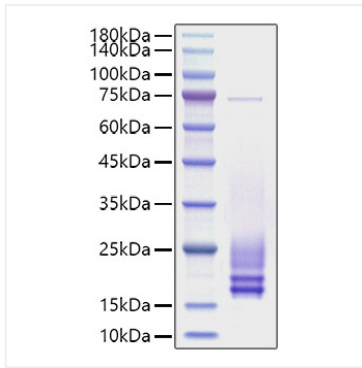
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

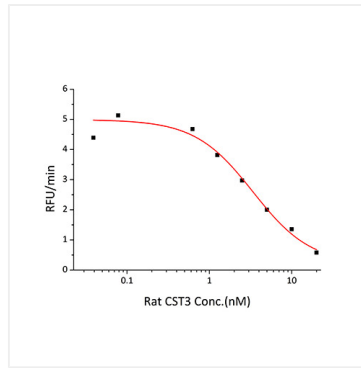
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat Cystatin-C/CST3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18-25 kDa.



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