

Recombinant rat Cystatin C protein

Catalog Number: ATGP3313

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-140aa

UniProt No.

P14841

NCBI Accession No.

NP_036969

Alternative Names

Cystatin-C, CST3, CYSC

PRODUCT SPECIFICATION

Molecular Weight

14.3 kDa (128aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

The IC50 value is < 1.0nM. The inhibitory function of Cystatin 3 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

Tag

His-Tag

Application

Enzyme Activity, SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

CST3, also known as cystatin-C, is secreted type 2 cysteine proteinase inhibitors of the cystatin superfamily. It is involved in processes such as tumor invasion and metastasis, inflammation and some neurological diseases. It inhibits many cysteine proteases such as papain and cathepsins B, H, K, L and S. Recombinant rat CST3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

GTSRPPPRLL GAPQEADASE EGVQRALDFA VSEYNKGSND AYHSRAIQVV RARKQLVAGI NYYLDVEMGR TTCTKSQTNL
TNCPFHDQPH LMRKALCSFQ IYSVPWKGTH TLTSSCKNA LEHHHHHH

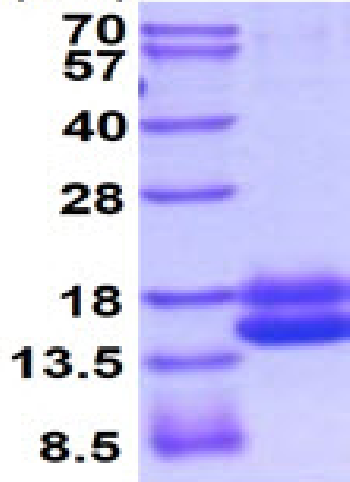
General References

Reed CH., et al. (2000) Br J Biomed. Sci. 57:323-329.
Esnard A., et al. (1992) FEBS Lett. 300:131-135.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)