

Recombinant human Cystatin S protein

Catalog Number: ATGP3223

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-141aa

UniProt No.

P01036

NCBI Accession No.

NP_001890

Additional Information

N- terminal Sequence Analysis: Ala-Asp-Pro-Met-Ser

PRODUCT SPECIFICATION

Molecular Weight

15.4 kDa (131aa) confirmed by MALDI-TOF

Concentration

1mg/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)

Tag

His-Tag

Application

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

Description

CST4, also known as Cystatin-S, belongs to the cystatin family. It is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function. This protein strongly inhibits papain and ficin, partially inhibits stem bromelain and bovine cathepsin C, but does not inhibit porcine cathepsin B or

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clostripain. Papain is inhibited non-competitively. Recombinant human CST4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADPMSSSKEE NRIIPGGIYD ADLNDEWVQR ALHFAISEYN KATEDEYYRR PLQVLRAREQ TFGGVNYFFD VEVGRTICTK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVP WEDRMSLVNS RCQEAHHHHH H

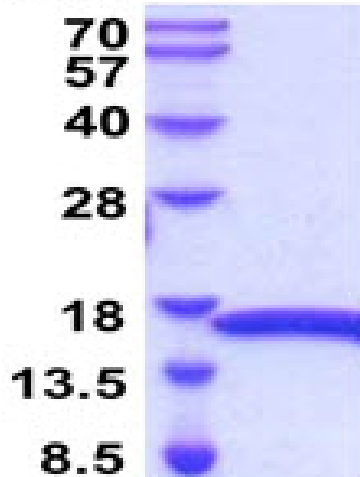
General References

Isemura S., et al. (1984) J. Biochem. 96:1311-1314.
Ryan C.M., et al. (2010) J. Am. Soc. Mass Spectrom. 21:908-917.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)