## PRODUCT INFORMATION

## Expression system

Baculovirus

## Domain

21-140aa

## UniProt No.

P21460
NCBI Accession No.
NP_034106

## Alternative Names

CST3, CysC

## PRODUCT SPECIFICATION

## Molecular Weight

14.2 kDa (126aa) confirmed by MALDI-TOF

## Concentration

$1 \mathrm{mg} / \mathrm{ml}$ (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 lug of protein (determined by LAL method)

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## Description

CST3, also known as Cystatin-C is a member of family 2 of the cystatin superfamily. This protein 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. 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 $S$. It indicates that a murine model should be relevant for studies of the human disease, hereditary Cystatin C amyloid angiopathy. Recombinant Mouse CST3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

ATPKQGPRML GAPEEADANE EGVRRALDFA VSEYNKGSND AYHSRAIQVV RARKQLVAGV NYFLDVEMGR TTCTKSQTNL TDCPFHDQPH LMRKALCSFQ IYSVPWKGTH SLTKFSCKNA <HHHHHH>

## General References

Janowski. R., et al. (2001) Nat. Struct. Biol. 8(4):316-20.
Mussap M., et al. (2004) Crit Rev Clin Lab Sci. 41(5-6):467-550.

## DATA

## SDS-PAGE



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

