## 32-13180: CST6 Human, Active

## Application: Functional Assay

Alternative Name : Cystatin E/M, cystatin 6, Cystatin M, Cystatin-E, Cysteine proteinase inhibitor.

## Description

## Source: E.coli.

Sterile Filtered colorless solution.
Cystatin E/M or CST6 is part of the cystatin type 2 family. Part of the cystatin type 2 family members can act as cysteine protease inhibitors, whereas cystatin $E / M$ regulates cathepsin $B$ inhibitors and not cathepsin $C$. cystatin $E / M$ is a protein the when secreted, has an effect on osteogenesis and bone resorption, insulin regulation, response to systemic inflammation \& hepatocyte growth factor receptors.
CST6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 142 amino acids (29-149 a.a.) and having a molecular mass of 15.9 kDa .CST6 is fused to a 21 amino acid His tag at N -Terminus and purified by proprietary chromatographic techniques.

## Product Info

## Amount :

## Purification :

## Content :

## Storage condition :

Amino Acid :

## $2 \mu \mathrm{~g} / 10 \mu \mathrm{~g}$

Greater than $90.0 \%$ as determined by SDS-PAGE.
The CST6 solution ( $0.5 \mathrm{mg} / 1 \mathrm{ml}$ ) contains $10 \%$ glycerol, 20 mM Tris- HCl buffer ( pH 8.0 ), 0.1 M NaCl and 1 mM DTT.
Store at $4^{\circ} \mathrm{C}$ if entire vial will be used within $2-4$ weeks. Store, frozen at $-20^{\circ} \mathrm{C}$ for longer periods of time. For long term storage it is recommended to add a carrier protein ( $0.1 \%$ HSA or BSA).Avoid multiple freeze-thaw cycles.
MGSSHHHHHH SSGLVPRGSH MRPQERMVGE LRDLSPDDPQ VQKAAQAAVA SYNMGSNSIY YFRDTHIIKA QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH VDLTTCPLAA GAQQEKLRCD FEVLVVPWQN SSQLLKHNCV QM

## Application Note

The IC50 value is $<10 \mathrm{nM}$. The inhibitory function of Cystatin 6 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at $25 \hat{A}^{\circ} \mathrm{C}$.

