

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 15.9kDa. CST6 is fused to a 21 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : The CST6 solution (0.5mg/1ml) contains 10% glycerol, 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 1mM DTT.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MRPQERMVGE LRDLSPPDPQ VQKAAQAAVA SYNMGNSIY
YFRDTHIIKA QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH VDLTTCPLAA GAQKEKLRCDFEVLVVPWQN
SSQLLKHNCV QM

Application Note

The IC₅₀ value is < 10nM. 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±0.5°C.