

32-13179: CST5 Human

Application : Functional Assay

Alternative Name : Cystatin-D, CST5, Cystatin 5, Cystatin-5.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered clear solution.

Cystatin 5 (CST5) is a novel member of the cystatin superfamily, which encompasses proteins that contain multiple cystatin-like sequences. Some members are active cysteine protease inhibitors, while others have lost or possibly never had this inhibitory activity. The superfamily is comprised of 3 inhibitory families: the type 1 cystatins (stefins), type 2 cystatins and the kininogens. Type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in various human fluids and secretions.

CST5 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 123 amino acids (26-142 a.a) and having a molecular mass of 14.36kDa. CST5 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

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

Content : The CST5 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

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 : QSRTLGGIH ATDLNDKSVQ RALDFAISEY NKVINKDEYY SRPLQVMAAY QQIVGGVNYY
FNVKFGRTTC TKSQPNLDNC PFNDQPKLKE EEFCSFQINE VPWEDKISIL NYKCRKVHHH HHH.

Application Note

The IC₅₀ value is < 2.0nM. The inhibitory function of Cystatin 5 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.