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Recombinant Human Cystatin-A, His Tag

CLPRO504
CLPRO504-2
CLPRO504-3
Lot:

Introduction: Cystatin-A is the intracellular inhibitor of cysteine proteinase cathepsin B (CatB) and belongs to family 1 of the cystatin superfamily of inhibitor proteins. CSTA is a stefin that functions as a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. It has been proposed that extracellular CatB together with other classes of proteinases are all subjected to a cascade-like manner of activation. CatB and its inhibitor Cystatin-A are involved in degradation of extracellular matrix proteins during tissue remodeling. CSTA is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Cystatin-A has been reported to be found in high concentrations in epithelial cells, polymorphonuclear leukocytes and lymphoid tissue. Stefins may be used as prognostic and diagnostic tools for cancer.

Synonyms: Cystatin-A, Cystatin-AS, Stefin-A, CSTA, STF1, STFA.

Description: CSTA produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 118 amino acids (1-98 a.a.) and having a molecular mass of 13.1kDa.
CSTA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Presentation: 5 µg (CLPRO504), 20 µg (CLPRO504-2), or 1 mg (CLPRO504-3), sterile filtered clear solution.
Cystatin-A (1 mg/ml) in 20 mM Tris-HCl buffer (pH 8.0), 1 mM DTT and 10% glycerol.

Stability: Recombinant Human CSTA although stable at 4°C for 1 week, should be stored below -18°C.
Please prevent freeze thaw cycles.

Amino acid sequence: MGSSHHHHHH SGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK
TNETYGKLEA VQYKTQVVAG TNYIYKVRAG DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN
KDDELTGF.

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