

CSTA

Recombinant Human Cystatin-A His

Catalog No.	CS440A	Quantity:	5 µg
	CS440B		20 µg
	CS440C		1 mg

Alternate Names: Cystatin-A, Cystatin-AS, Stefin-A, CSTA, STF1, STFA.

Description: 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. CSTA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Physical Appearance: Sterile Filtered clear solution.

Gene ID: 1475

Protein Accession No: P01040

Source: *E. coli*

Molecular Mass: 13.1 kDa

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK
TNETYGKLEA VQYKTQVVAG TNYYIKVRAG DNKYMHLKVF KSLPGQNEDL
VLTGYQVDKN KDDELTGF.

Storage & Stability: 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.

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