



Product Datasheet

Product Name	Stefin A Human Recombinant
Cata No	CB501155
Source	<i>Escherichia Coli.</i>
Synonyms	Cystatin-A, Cystatin-AS, Stefin-A, CSTA, STF1, STFA.

Description

Stefin 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 Stefin 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. Stefin 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. Stefin A Human Recombinant full length protein expressed in E.coli, shows a 37 kDa band on SDS-PAGE.

The Stefin A is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Formulation

Stefin A at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

Please prevent freeze-thaw cycles.

Applications

- ELISA
- Inhibition Assays
- Western Blotting