
Product Data Sheet

Product Name: CSTA Human, GST

Cat. No.: GP23265

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cystatin-A; Cystatin-AS; Stefin-A; CSTA; STF1; STFA.		
Formulation	Cystatin-A in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.		

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.

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.

Background

Cystatin-A Human Recombinant full length protein expressed in E.coli, shows a 37 kDa band on SDS-PAGE (including GST tag). The Cystatin-A is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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