
Product Data Sheet

Product Name: CSTA Human, Active

Cat. No.: GP23264

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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYIYKVRAG DNKYMHLKVF KSLPGQNE DL VLTGYQVDKN KDELDTGF.		
Formulation	Cystatin-A (1mg/ml) in 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol.		

Introduction

Human Cystatin A (CSTA or Stefin A) belongs to family 1 of the cystatin superfamily, which is characterized by the lack of disulphide bonds and carbohydrates. CSTA is an intracellular inhibitor regulating the activities of cysteine proteases of the papain family such as Cathepsins B, H and L. Cystatin A has also been implicated in several disease states. Because of altered proteolytic state in cancer progression, CSTA may have a role in the proteolytic pathways.

Biological Activity

The IC₅₀ value is < 1.0nM. The inhibitory function of CSTA on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

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.

Background

Cystatin A Human Recombinant produced in E.Coli is a single, non-glycosylated,

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Polypeptide chain containing 118 amino acids (1-98a.a.) and having a molecular mass of 13.1 kDa. The Cystatin A is fused to a 20 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.

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