

CSTA Human

Description: Cystatin A Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 98 amino acids and having a molecular mass of 11kDa. The Cystatin A is purified by proprietary chromatographic techniques.

Catalog #: PRPS-093

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ile-Pro-Gly-Gly.

Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Cystatin A was lyophilized from a concentrated (1mg/ml) solution in 50mM Tris-HCl, pH 7.5 and 100mM NaCl.

Stability:

Lyophilized Cystatin A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CSTA should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Cystatin A in sterile 18M-cm H₂O not less than 100

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 < 3.4 nM, as measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate.

To place an order, please [Click HERE](#).