# **Recombinant Human Cystatin A/CSTA Protein (His Tag)**

Catalog Number:PKSH032320



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Cystatin-A;Cystatin-A;CSTA;STF1;STFA

SpeciesHumanExpression HostE.coliSequenceIle2-Phe98AccessionP01040Calculated Molecular Weight11.8 kDaObserved molecular weight14 kDaTagN-His

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 100mM NaCl, pH

8.0.

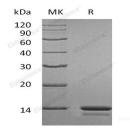
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the print

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

Human Cystatin A (CSTA) is a member of family 1 of the cystatin superfamily; which is characterized by lacking of disulphide bonds an carbohydrates. Cystatin A is an intracellular inhibitor regulating the activities of cysteine proteases of the papain family such as Cathepsins B; H and L. Cystatin A is also implicated in a number of disease states. Due to altered proteolytic state in cancer progression; Cystatin A may play a role in the proteolytic pathways.

### For Research Use Only

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