



Recombinant Protein Technical Manual  
Recombinant Human Cystatin A/CSTA Protein (His  
Tag)  
RPES1640

### Product Data:

**Product SKU:** RPES1640

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01040

### Protein Information:

**Molecular Mass:** 11.8 kDa

**AP Molecular Mass:** 14 kDa

**Tag:** N-6His

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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 TrisHCl, 100mM NaCl, pH 8.0.

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

**Application:**

**Synonyms:** Cystatin-A; Cystatin-AS; Stefin-A; CSTA; STF1; STFA

## Immunogen Information:

**Sequence:** Ile2-Phe98

## Background:

Human Cystatin A (CSTA) is a member of family 1 of the cystatin superfamily, which is characterized by lacking of disulphide bonds and 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.