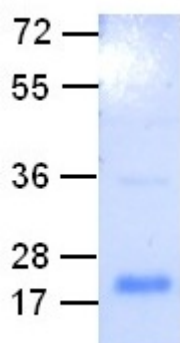


CST3 PROTEIN**CST3 Protein**

[100 µg]

Cat. #: 10157**Product Name:** CST3 Protein**Synonyms:** Cystatin C, Cystatin 3, CYSC**Source:** Human, recombinant full length, His6-tag**Expression Host Species:** E. coli**Molecular Weight:** 16 kDa**Purity:** >95% by SDS-PAGE**Introduction:** Cystatin C, which belongs to the type 2 cystatin gene family, is a potent inhibitor of lysosomal proteinases. It regulates the activity of cathepsin S, a protease with central regulatory functions in retinal pigment epithelial (RPE) cells.**Amino Acid Sequence** (1-146)**MAGPLRAPLLLLAILAVALAVSPAAGSSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDM
YHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFHDQPHLKRKAFCFSFQIYAVPWQG
TMTLSKSTCQDA****Properties****Physical Appearance (form):** Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.**Physical Appearance (form):** White or clear**Concentration:** 1 mg/mL**Storage:** -80°C**Preparation Instructions:**

Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM β-mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β-D-maltoside (DoDM) or polyethylene detergents (e.g. C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution. The purity of His-tagged CST3 was determined by SDS- PAGE and Coomassie Brilliant Blue Staining.

**References:**

1. Paraoan, L. et al., Traffic 5: 884-895, 2004.

2. Ratnayaka, A. et al., Exp. Eye Res. 84: 1135-1139, 2007.
3. Zurdal, J. et al., Brit. J. Ophthal. 86: 214-219, 2002.