

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
YHSRALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLNCPPHFDQPHLKRKAFCSFQIYAVPWQG
TMTLSKSTCQDA**

Properties

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

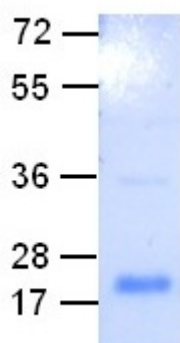
Physical Appearance (form): White or clear

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. Zurdel, J. et al., Brit. J. Ophthal. 86: 214-219, 2002.