

CST3

Catalog Number: 10157

Synonyms: Cystatin C, Cystatin 3, CYSC

Background: 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)

MAGPLRAPLLLLAILAVALAVSPAAGSSPGKPPRL
VGGPMDASVEEEGVRRALDFAVGEYNKASNDM
YHSRALQVVRARKQIVAGVNYFLDVELGRTTCT
KTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQ
GTMTLSKSTCQDA

Source: Human, recombinant full length, His₆-tag

Expression Host: E. coli

Molecular Weight: 16 kDa

Constituents: 20mM Tris-HCl, pH8.0, 150mM NaCl.

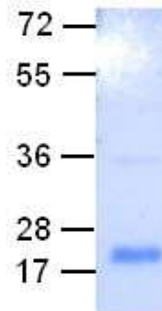
Physical Appearance: White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

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.



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.

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