

For Research Use Only

Recombinant Human Cystatin S/CST4 protein (mFc Tag)



Catalog Number: Eg3637

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human Cystatin S protein Ser21-Ala141 (Accession# P01036) with a mouse IgG Fc tag at the C-terminus.

GeneID:
1472

Accession:
P01036

Predicted Molecular Mass:
40.8 kDa

SDS-PAGE:
40-47 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Cystatins are a family of inhibitors of cysteine peptidases that comprises the salivary cystatins D and S-type (including CST5 and CST4,1,2) and cystatin C-type (CST3). The D and S-type cystatin have also been detected in seminal plasma, tears, and tracheobronchial fluid but not in other fluids and secretions where cystatin C is found. And the CST4 was expressed in the serous acinar and demilune cells of the human submandibular gland and at lower levels in the serous acini of the parotid gland. CST4 specifically combines with cysteine protease to regulate its activity, thus preventing hydrolysis of the extracellular matrix. And some studies propose that CST4 might be a biomarker for gastrointestinal cancer.

References

1. de Sousa-Pereira, P., et al. (2014). PLoS One, Oct 17;9(10), e109050.
2. Dickinson, D. P., et al. (2002). DNA Cell Biol. Jan;21(1):47-65.
3. Zhang YQ, et al. (2017). Am J Cancer Res. Nov 1;7(11):2290-2304.
4. Dou Y, et al. (2018). Onco Targets Ther. Mar 28;11:1743-1756.

Synonyms

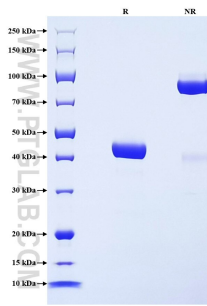
CST4, Cystatin 4, cystatin S, Cystatin-4, Cystatin-S

For technical support and original validation data for this product please contact

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Purity of Recombinant Human Cystatin S was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.