

For Research Use Only

Recombinant Human Cystatin SN/CST1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg4945

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

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

Source:
HEK293-derived Human Cystatin SN protein Trp21-Ser141 (Accession# P01037) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
1469

Accession:
P01037

Predicted Molecular Mass:
41.5 kDa

SDS-PAGE:
39-45 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

CST1, or cystatin SN, is a human gene encoding a secreted protein belonging to the type 2 cystatin superfamily, which includes CST1, CST2, CST3, CST4 and CST5. These proteins are cysteine proteinase inhibitors found in various human fluids and secretions where they appear to have protective functions. CST1 is specifically found in saliva, tears, urine and seminal fluid and plays a role in inhibiting the activity of cysteine proteases. CST1 has been implicated in several pathological processes, including tumour invasion and metastasis.

References

1. Yang J. et al. (2022) BMC Cancer. 22(1):589.
2. Li D. et al. (2023) Oncogene. 42(2):83-98.
3. Jiang J. et al. (2015) Tumour Biol. 36(5):3903-10.
4. Zhang L. et al. (2024) Sci Rep. 14(1):4985.

Synonyms

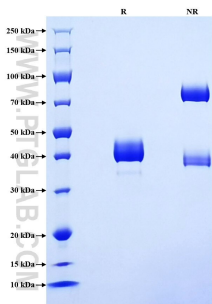
CST1, Cystatin SA I, Cystatin-SA-I, Cystatin 1, cystatin SN

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

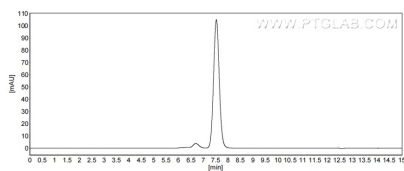
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Selected Validation Data



Purity of Recombinant Human Cystatin SN 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.



The purity of Human Cystatin SN/CST1 was greater than 90% as determined by SEC-HPLC.