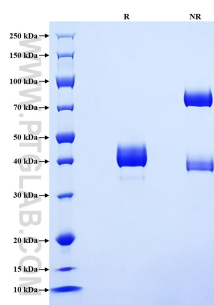


Recombinant Human Cystatin SN/CST1 protein (rFc Tag)(HPLC verified)

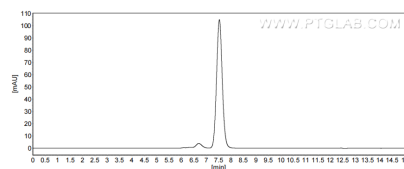
Catalog Number: Eg4945

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

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.

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

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