

For Research Use Only

Recombinant Rat Cystatin C protein (rFc Tag)



Catalog Number: Eg3338

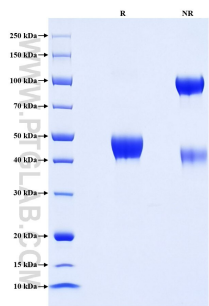
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Rat Cystatin C protein Gly21-Ala140 (Accession# P14841) with a rabbit IgG Fc tag at the C-terminus. GeneID: 25307 Accession: P14841 Predicted Molecular Mass: 39.6 kDa SDS-PAGE: 40-50 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	Cystatin C is a 13-kDa inhibitor of cysteine proteinases which is secreted by all cell types and is completely cleared from the organism through glomerular filtration, shown to be an early and sensitive biomarker of renal dysfunction. It is also used as an emerging biomarker in cardiovascular disease. Cystatin C is involved in a variety of inflammatory reactions. The concentration of serum cystatin C has also been shown to be unaltered in certain inflammatory conditions or other disorders of metabolism. The plasma level of serum cystatin C can be expressed as its level of generation from cells and diet and its subsequent elimination through the gut, liver, and kidneys.		
References	1.Grubb A. et al.(1985) Acta Med Scand.218:499-503. 2.Uchida K. et al.(2002) Clin Chim Acta.323:121-128. 3.Jacobsson B. et al.(2020) Ann Clin Biochem.57:182-185. 4.Menon V. et al.(2007) Ann Intern Med.147:19.		
Synonyms	Cystatin C, Cst3, Cystatin-3, Cystatin-C		

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

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Selected Validation Data



Purity of Recombinant Rat Cystatin C 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.