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CST3 Human, Active

Catalog #:PRPS-968

For research use only.

Description: Cystatin-C Human Recombinant produced in HEK cells is a non-glycosylated monomer, having a molecular weight of approximately 13kDa.The Cystatin-C is purified by proprietary chromatographic techniques.

Synonyms: Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.

Source:HEK.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95% as obsereved by SDS-PAGE.

Formulation:
The Cystatin-C was lyophilized from 1mg/ml in 1xPBS.

Stability:
Lyophilized Cystatin-C althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Cystatin-C should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Cystatin-C in sterile water not less than 100

Introduction:
Cystatins are a superfamily of cysteine proteinase inhibitors found in both plants and animals. They comprise a group of proteinase inhibitors, widely distributed in tissues and body fluids, and form tight complexes with cysteine proteases such as cathepsin B, H, L and S. Cystatin C, a secreted molecule of this family, is of interest from biochemical, medicine and evolutionary points of view. Cystatin C, with molecular weight of 13260 Da, is composed of 120 amino acids, lacks carbohydrate and has two disulfide bridges located near the carboxyl terminus. Cystatin C is increased in patients with malignant diseases, and is related to the insufficiency of renal function and appears to be a better marker than creatinine. On the other hand, low levels of cystatin C involve cause the breakdown of the elastic laminae and, subsequently, the atherosclerosis and abdominal aortic aneurysm.

Biological Activity:
The inhibitory function of Cystatin-C on papins protease activity was measured by a colorimetric assay using L-BAPA as substrate. IC50 value was measured at 5-20 μg/ml (0.3-1.5 μM) with a range of 1.56-50μg/ml Cystatin-C in presence of 0.55μM papain and 0.44μM L-BAPA. The activity is typically 0.3-1.5μM IC50.

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