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Recombinant Human Cystatin C/CST3 Protein (E.coli, His Tag)

Catalog Number: PKSH032324

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Human

Source E.coli-derived Human Cystatin C;CST3 protein Gly26-Ala146, with an N-terminal His

Calculated MW 16.5 kDa
Observed MW 16 kDa
Accession P01034

Bio-activity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU} \text{ per } \mu\text{g} \text{ of the protein as determined by the LAL method.}$

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping

This product is provided as lyophilized powder which is shipped with ice packs.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, 1mM

EDTA, 5% sucrose, 0.009% Tweem80, pH7.4.

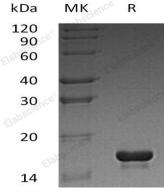
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Cystatin C is a member of family 2 of the cystatin superfamily. It is ubiquitous in human tissues and body fluids and mainly used as a biomarker of kidney function. Cystatin C inhibits many cysteine proteases such as papain and Cathepsins B; H; K; L and S. As an inhibitor of cysteine proteinases; Cystatin C is thought to serve an important physiological role as a local regulator of this enzyme activity. Recently; it has been studied for its role in predicting newonset or deteriorating cardiovascular disease. It also seems to play a role in brain disorders involving amyloid (a specific type of protein deposition); such as Alzheimer's disease.

For Research Use Only

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