Recombinant Human Cystatin C/CST3 Protein (Human Cells)

Catalog No. PKSH032321

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

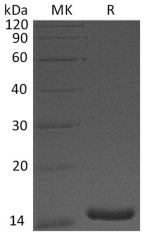
Description

Synonyms	Cystatin-C;Cystatin-3;Gamma-trace;Neuroendocrine basic polypeptide;Post-gamma-globulin;CST3
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser27-Ala146
Accession	P01034
Calculated Molecular Weight	13.3 kDa
Observed molecular weight	15 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 10mM PB, 200mM Nacl, pH6.5. 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

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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 new-onset 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.

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