



Recombinant Protein Technical Manual

Recombinant Human Cystatin C/CST3 Protein (Human Cells, His Tag)

RPES1701

Product Data:

Product SKU: RPES1701

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P01034

Protein Information:

Molecular Mass: 14.4 kDa

AP Molecular Mass: 158 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 10mM PB, 200mM NaCl, pH6.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Cystatin-C;Cystatin-3;Gamma-trace;Neuroendocrine basic polypeptide;Post-gamma-globulin;CST3

Immunogen Information:

Sequence: Ser27-Ala146

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 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.