

## Recombinant Human Cystatin-C

### Information

<b>Gene ID</b>	1471
<b>Accession #</b>	P01034
<b>Alternate Names</b>	
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 13.3 kDa, a single non-glycosylated polypeptide chain containing 120 amino acids.
<b>AA Sequence</b>	SSPGKPPRLV GGPMDASVEE EGVRRALDFA VGEYNKASND MYHSRALQVV RARKQIVAGV NYFLDVELGR TTCTKTQPNL DNCPFHDQPH LKRKAFCSFQ IYAVPWQGTMLSKSTCQDA
<b>Appearance</b>	Sterile colorless liquid.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 6 months from date of receipt, -20 to -70 °C as supplied - 3 months, -20 to -70 °C under sterile conditions after opening
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution in 20mM Tris-HCl, pH 8.0, 300 mM NaCl, with 50 % glycerol.
<b>Reconstitution</b>	
<b>Biological Activity</b>	Data Not Available.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Cystatin-C	5µg	100µg	500µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 6 months from date of receipt, -20 to -70 °C as supplied
- 3 months, -20 to -70 °C under sterile conditions after opening

## Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 0.1 EU/μg of rHuCystatin-C as determined by LAL method.

## Description

Cystatin C is a member of family 2 of the Cystatin superfamily. It is involved in processes such as tumor invasion and metastasis, inflammation and some neurological diseases. It inhibits many cysteine proteases such as papain and cathepsins B, H, K, L and S. It is ubiquitous in human tissues and body fluids. A point mutation in the gene coding for the 120 amino acid mature Cystatin C causes a hereditary form of amyloid angiopathy in which the protein variant (Leu68 to Gln) is deposited in the cerebral arteries, leading to fatal cerebral hemorrhage. Cystatin C may have additional clinical applications. For example, it is a good marker for glomerular filtration rate.

## Reference

**APExBIO Technology**

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