Recombinant Human Cystatin-C

#R00500

Size: 5 μg/100 μg/500 μg

Stability & Storage

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.

Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

SSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNK
ASNDMYHSRALQVVRARKQIVAGVNYFLDVELGRTT
CTKTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQG
TMTLSKSTCQDA

Product Specification

Accession	P01034
GeneID	1471
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 13.3 kDa, a single non-glycosylated polypeptide chain containing 120 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Physical Appearance	Sterile colorless liquid.
Formulation	Supplied as a 0.2 μm filtered solution in 20mM Tris-HCl, pH 8.0, 300 mM NaCl, with 50 % glycerol.

Endotoxin	Less than 0.1 EU/μg of rHuCystatin-C as determined by LAL method.