

Recombinant Human CST3 protein

Cat. No. CST3-376H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CST3 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	120
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.
Form	Supplied as a 0.2µm filtered solution in 20mM Tris-HCl, pH 8.0, 300 mM NaCl, with 50 % glycerol.
Molecular Mass	Approximately 13.3 kDa, a single non-glycosylated polypeptide chain containing 120 amino acids.
AA Sequence	SSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDMYHSRALQVVRARK

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	QIVAGVNYFLDVELGRTTCTKTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQGTMTLSKSTCQDA
Endotoxin	Less than 0.1 EU/g of rHuCystatin-C as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

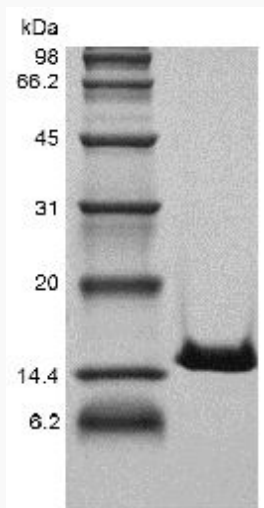
Gene Name	CST3
Official Symbol	CST3
Synonyms	CST3; cystatin C; cystatin C (amyloid angiopathy and cerebral hemorrhage); cystatin-C; cystatin 3; cystatin-3; gamma-trace; post-gamma-globulin; bA218C14.4 (cystatin C); neuroendocrine basic polypeptide; ARMD11; MGC117328;
Gene ID	1471
mRNA Refseq	NM_000099
Protein Refseq	NP_000090
MIM	604312
UniProt ID	P01034

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**SDS-PAGE of CST3-
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