

Active Recombinant Human Cystatin C

Cat. No. CST3-1914H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cystatin C was expressed in <i>human 293 cells</i> as a monomer with an apparent molecular mass of 12 to 13 kDa.
Species	Human
Source	HEK293
Description	Native Cystatin C in human urine is found in two different forms: one with pI 9.2 and the other with pI 7.8 by elimination of small basic peptides or amino acids from the N-terminal end of protein. Cystatin C has been studied for its role in predicting new onset or deteriorating cardiovascular disease. This cytokine is produced in a serum-free, chemically defined media.
Activity	0.3 to 1.5 μ M IC ₅₀ .
Purity	>95%.
Endotoxin	Endotoxin-free.
Molecular Mass	12 to 13 kDa, monomer, nonglycosylated.
Purity Confirmation	The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Activity Assay	The inhibitory function of Cystatin C on papain's protease activity was measured by

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acolorimetric assay using L-BAPA as substrate. IC50 value was measured at 5 to 20 µg/mL (0.3 to 1.5 µM) with a range of 1.56µg/mL to 50µg/mL Cystatin C in presence of 0.55µM papain and 0.44µM L-BAPA.

GENE INFORMATION

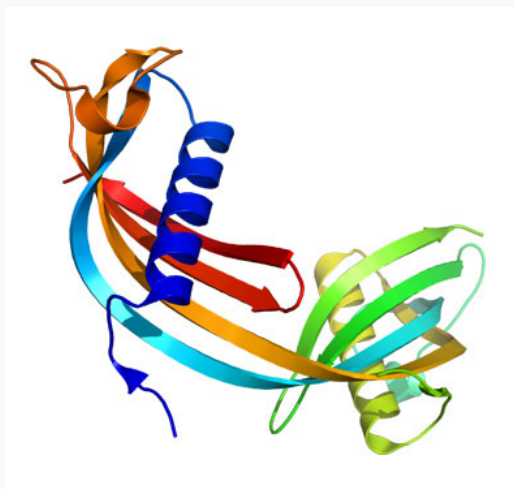
Gene Name	CST3 cystatin C [Homo sapiens]
Synonyms	CST3; cystatin C; ARMD11; MGC117328; CST3; cystatin C (amyloid angiopathy and cerebral hemorrhage); cystatin C1; cystatin 3; Neuroendocrine basic polypeptide2; OTTHUMP000001641822; ARMD112; post-gamma-globulin; bA218C14.4 (cystatin C); OTTHUMP00000164181; Gamma-trace; gamma-trace; Post-gamma-globulin; MGC117328; Cystatin-3
Gene ID	1471
mRNA Refseq	NM_000099
Protein Refseq	NP_000090
MIM	604312
UniProt ID	P01034
Chromosome Location	20p11.21
Function	beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protease binding; protein binding

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