

Human Cystatin C 1r4c

Cat. No. CST3-3667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native protein isolated from human urine.
Species	Human
Description	Cystatin C is mainly used as a biomarker of kidney function. 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. In humans, all cells with a nucleus (cell core containing the DNA) produce cystatin C as a chain of 120 amino acids. It is found in virtually all tissues and bodily fluids. It is a potent inhibitor of lysosomal proteinases and probably one of the most important extracellular inhibitors of cysteine proteases. Cystatin C belongs to the type 2 cystatin gene family.
Form	Filtered (0,4 µm) and lyophilised from 0.6 mg/mL in 20mM NH ₄ HCO ₃ with traces of buffer salts.
Research topic	Renal disease
Purity	>96%
Reconstitution	Add 20mM NH ₄ HCO ₃ to prepare a working stock solution of approximately 0.5 mg/mL. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting; ELISA

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
Pathways	Salivary secretion
GENE INFORMATION	
Gene Name	CST3 cystatin C [Homo sapiens]
Official Symbol	CST3
Synonyms	CST3; cystatin C; ARMD11; MGC117328; cystatin 3; cystatin-3; gamma-trace; OTTHUMP00000030440; OTTHUMP00000164181; OTTHUMP00000164182; post-gamma-globulin; bA218C14.4 (cystatin C); neuroendocrine basic polypeptide; cystatin C (amyloid angiopathy and cerebral hemorrhage); Cystatin-C; Gamma-trace; Neuroendocrine basic polypeptide; Post-gamma-globulin
Gene ID	1471
mRNA Refseq	NM_000099
Protein Refseq	NP_000090
MIM	604312

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UniProt ID	P01034
Chromosome Location	20p11.2
Function	beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protease binding
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