

Recombinant Rat Cst3, His-tagged

Cat. No. Cst3-3670R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 134 AA, MW: 14.93 kDa (calculated). N-terminal His-tag, 14 extra AA (highlighted).
Species	Rat
Source	E.coli
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 lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.
Research topic	Renal disease; Animal studies
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MRGSHHHHHH GMASGTSRPP PRLLGAPQEA DASEEGVQRA LDFAVSEYNK GSNDAYHSRA IQVVRARKQL VAGINYLDV EMGRTTCTKS QTNLTNCPFH DQPHLMRKAL CSFQIYSVPW KGTHTLTKSS CKNA
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 [Rattus norvegicus]
Official Symbol	Cst3
Synonyms	Cst3; cystatin C; CYSC; MGC105556; cystatin-C; cystatin 3; cystatin-3; Cystatin C (cysteine proteinase inhibitor)
Gene ID	25307
mRNA Refseq	NM_012837
Protein Refseq	NP_036969

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UniProt ID	P14841
Chromosome Location	3q41
Function	beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protease binding
Cystatin C 1r4c	