

Recombinant Human Cystatin 9 (testatin), His-tagged

Cat. No. CST9-6892H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CST9 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 17.2 kDa.
Species	Human
Source	E.coli
ProteinLength	29-159aa
Description	CST9 is a member of the CRES (cystatin-related epididymal spermatogenic) subfamily. The CRES (cystatin-related epididymal spermatogenic) protein defines a newsubgroup in the family 2 cystatins of the cystatin superfamily. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. CST9 is expressed in heart, placenta, lung, liver, skeletal muscle and pancreas. CST9 is thought to play a role in hematopoietic differentiation or inflammation. It has also been shown to be upregulated by LPS in some cancer cell lines, such as promyelocytic leukemia (HL-60) and myelomonocytic leukemia.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol.
Molecular Mass	17.2 kDa (152aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MWCSEEEEMGG NNKIVQDPMF LATVEFALNT FNVQSKEEHA YRLRLVLSW REDSMDRKWR GKMVFSMNLQ LRQTVCRKFE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	DDIDNCPFQE SLELNNVRQG ISFPQVHSCG CCMGCGVGTG AADKAIPRDK GK
Purity	>90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	CST9 cystatin 9 (testatin) [Homo sapiens]
Official Symbol	CST9
Synonyms	CST9; cystatin 9 (testatin); cystatin-9; CLM; cystatin-like molecule;
Gene ID	128822
mRNA Refseq	NM_001008693
Protein Refseq	NP_001008693
UniProt ID	Q5W186
Chromosome Location	20p11.21
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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