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## Product Data Sheet

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Product Name: CST9 Human  
 Cat. No.: GP23262  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CLM; cystatin-9 (testatin); Cystatin-like molecule.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MWCSEEEMGG NNKIVQDPMF LATVEFALNT FNVQSKEEHA YLLRLVLSSW REDSMDRKWR GKMVFSMNLQ LRQTVCRKFE DDIDNCPFQE SLELNNVRQG ISFPQVHSCG CCMGCGVGTG AADKAIPRDK GK.		
Formulation	The CST9 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

CST9 belongs to the CRES (cystatin-related epididymal spermatogenic) subfamily. The CRES (cystatin-related epididymal spermatogenic) protein outlines a new subgroup in the family 2 cystatins of the cystatin superfamily. A few members are active cysteine protease inhibitors, however others have lost or possibly never developed this inhibitory activity. CST9 takes part in hematopoietic differentiation or inflammation and is expressed in heart, placenta, lung, liver, skeletal muscle and pancreas. CST9 is upregulated by LPS in several cancer cell lines, such as promyelocytic leukemia (HL-60) and myelomonocytic leukemia.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CST9 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 152 amino acids (29-159) and having a molecular mass of 17.2

**Caution: Product has not been fully validated for medical applications. For research use only.**

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kDa.CST9 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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