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## Product Data Sheet

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Product Name: CST1 Human  
 Cat. No.: GP23249  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cystatin-SN; Cystatin-SA-I; Cystatin-1; Salivary cystatin-SA-1; CST1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMWSPKEE DRIIPGGIYN ADLNDEWVQR ALHFAISEYN KATKDDYRR PLRVLRRARQQ TVGGVNYFFD VEVGRTICTK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVW WENRRSLVKS RCQES.		
Formulation	CST1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl.		

### Introduction

Cystatin-SN (CST1) belongs to the type 2 salivary cystatin family found in a variety of fluids and secretions, including plasma, tears, and saliva. The cystatin superfamily includes proteins which contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, whereas others have lost or possibly never developed this inhibitory activity. CST1 is up-regulated in cancerous lesions of gastric cancer tissues compared to noncancerous regions, in addition clinicopathological analysis revealed a significant correlation between high expression of CST1.

### 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

CST1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 145 amino acids (21-141 a.a.) and having a molecular mass of 16.9kDa. CST1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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