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## Product Data Sheet

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Product Name: Cystatin-C Protein  
 Cat. No.: GP26273  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.		
Amino Acid Sequence	SSPGKPPRLV GGPMDASVEE EGVRRALDFA VGEYNKASND MYHSRALQVV RARKQIVAGV NYFLDVELGR TTCTKTQPNL DNCPFHDQPH LKRKAFCSFQ IYAVPWQGTMTLSKSTCQDA.		
Formulation	Cystatin-C is supplied as a 0.2 µm filtered solution containing 20mM Tris-HCl, 50 % glycerol, pH 8.0 and 300mM NaCl.		

### Introduction

Cystatins are a superfamily of cysteine proteinase inhibitors found in both plants and animals. They comprise a group of proteinase inhibitors, widely distributed in tissues and body fluids, and form tight complexes with cysteine proteases such as cathepsin B, H, L and S. Cystatin C, a secreted molecule of this family, is of interest from biochemical, medicine and evolutionary points of view. Cystatin C is increased in patients with malignant diseases, and is related to the insufficiency of renal function and appears to be a better marker than creatinine. On the other hand, low levels of cystatin C involve cause the breakdown of the elastic laminae and subsequently, the atherosclerosis and abdominal aortic aneurysm.

### 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

Cvstatin-C Human Recombinant produced in E.Coli is a single. non- alvcosvlated

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

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Cystatin-C is a natural secretory product of the liver. It is a single, non-glycosylated polypeptide chain containing 120 amino acids and having a molecular mass of 13.3kDa. Cystatin-C is purified by proprietary chromatographic techniques.

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