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## Product Data Sheet

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Product Name: CST3 Rat  
 Cat. No.: GP23255  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Cystatin-C; Cystatin-3; CYSC; MGC105556.		
Amino Acid Sequence	MRGSHHHHHH GMASGTSRPP PRLGAPQEA DASEEGVQRA LDFAVSEYNK GSNDAYHSRA IQVVRARKQLVAGINYLDV EMGRTTCTKS QTNLTNCPFH DQPHLMRKAL CSFQIYSVPW KGTHLTLSKSS.		
Solubility	Add 0.2 ml of 0.1M Acetate buffer pH4 and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 0.1mg/ml. In higher concentrations the solubility of this antigen is limited.		
Formulation	Filtered (0.4 micron) and lyophilized from 0.5 mg/ml in 0.03M Acetate buffer, pH 4.		

### 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, with molecular weight of 13260 Da, is composed of 120 amino acids, lacks carbohydrate and has two disulfide bridges located near the carboxyl terminus. 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

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store lyophilized protein at  $-20^{\circ}\text{C}$  . Aliquot the product after reconstitution to avoid repeated freezing/ thawing cycles. Reconstituted protein can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show any change after two weeks at  $4^{\circ}\text{C}$  .

### Background

Total 134 AA, Mw: 14.93 kDa (calculated). N-terminal His-tag (14AA).

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