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## Product Data Sheet

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Product Name: Cystatin-C Mouse, Active  
 Cat. No.: GP22259  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cystatin-C; Cystatin-3; Cst3; CST3		
Amino Acid Sequence	ATPKQGPRML GAPEEADANE EGVRRALDFA VSEYNKGSND AYHSRAIQVV RARKQLVAGV NYFLDVEMGR TTCTKSQTNL TDCPFHDQPH LMRKALCSFQ IYSVPWKGTH SLTKFSCCKNA HHHHHH		
Formulation	CST3 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

MMP-1 (interstitial collagenase) can break down a wide range of substrates including types I, II, III, VII, VIII, and X collagens as well as L-Selectin, pro-TNF, IL-1 $\beta$ , IGFBP-3, IGFBP-5, casein, gelatin,  $\alpha$ 1 antitrypsin, myelin basic protein, pro-MMP2 and pro-MMP9. A significant function of MMP-1 is the degradation of fibrillar collagens in extracellular matrix remodeling. MMP-1 is expressed in fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages. MMP1 can be divided into a number of distinct domains: a prodomain which is cleaved on activation, a catalytic domain containing the zinc binding site and a short hinge region with a carboxyl terminal domain. MMP1 is part of a cluster of MMP genes which localize to chromosome 11q22.3.

### Biological Activity

The IC<sub>50</sub> value is < 1.0nM. The inhibitory function of Cystatin 3 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CST3 Mouse produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 126 amino acids (21-140 a.a.) and having a molecular mass of 14.2kDa (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa). CST3 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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