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## Product Data Sheet

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Product Name: CST5 Human  
Cat. No.: GP23259  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cystatin-D; CST5; Cystatin 5; Cystatin-5.		
Amino Acid Sequence	QSRTLGGIH ATDLNDKSVQ RALDFAISEY NKVINKDEYY SRPLQVMAAY QQIVGGVNYF FNVKFGRTTC TKSQPNLDNC PFNDQPKLKE EEFCSFQINE VPWEDKISIL NYKCRKVHHH HHH.		
Formulation	The CST5 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

### Introduction

Cystatin 5 (CST5) is a novel member of the cystatin superfamily, which encompasses proteins that contain multiple cystatin-like sequences. Some members are active cysteine protease inhibitors, while others have lost or possibly never had this inhibitory activity. The superfamily is comprised of 3 inhibitory families: the type 1 cystatins (stefins), type 2 cystatins and the kininogens. Type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in various human fluids and secretions.

### Biological Activity

The IC<sub>50</sub> value is < 2.0nM. The inhibitory function of Cystatin 5 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% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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CST5 Human Recombinant produced in E. coli is a single polypeptide chain containing 123 amino acids (26-142) and having a molecular mass of 14.36kDa. CST5 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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