
Product Data Sheet

Product Name: CST7 Human
 Cat. No.: GP23261
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cystatin-F; Cystatin-7; Cystatin-like metastasis-associated protein; CMAP; Leukocystatin; Cystatin 7; CST7; CMAP.		
Amino Acid Sequence	GPSPDTC SQD LNSRVKPGFP KTIKTNDPGV LQAARYSVEK FNNCTNDMFL FKESRITRAL VQIVKGLKYM LEVEIGRTTC KKNQHRLRDD CDFQTNHTLK QTLSCYSEVW VVPWLQHFV PVL RCHHHHH HH.		
Formulation	The CST7 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4).		

Introduction

Cystatin 7 (CST7) is a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system. Cystatin-7 is comprised of multiple cystatin-like sequences. The superfamily is comprised of 3 inhibitory families: the type 1 cystatins (stefins), type 2 cystatins and the kininogens. Some members are active cysteine protease inhibitors, while others have lost or possibly never had this inhibitory activity. Type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in various human fluids and secretions. CST7 protein expression has been observed in numerous human cancer cell lines established from malignant tumors.

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

CST7 Human Recombinant produced in E. coli is a single polypeptide chain containing

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132 amino acids (20-145) and having a molecular mass of 15.3kDa. CST7 is fused to a 7 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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