
Product Data Sheet

Product Name: CST3 Mouse
 Cat. No.: GP23252
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Post G-globulin; CST 3; CST3; Gamma-Trace; Cystatin 3; Amyloid Angiopathy and Cerebral Hemorrhage; Cystatin-C precursor; neuroendocrine basic polypeptide.		
Amino Acid Sequence	MRGSHHHHHH GMASATPKQG PRMLGAPEEA DANEEGVRRA LDFAVSEYNK GSNDAYHSRA IQVVRARKQL VAGVNYFLDV EMGRTTCTKS QTNLTDCPFH DQPHLMRKAL CSFQIYSVPW KGTHSLTKFSCNA.		
Solubility	Add 0.1M Acetate buffer pH 4 to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 50mM NaCl pH-7.5.		

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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Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Background

Cystatin-C Murine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15kDa. The Mouse Cystatin-C is fused to His tag at N-Terminus. The Mouse Cystatin-C is purified by proprietary chromatographic techniques.

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