9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CST3 k9

Cystatin-C Canine Recombinant
RCP0563

Product Overview

Name	CST3 k9

Description

Cystatin-C Canine Recombinant

Synonyms

Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.

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.

Source

E. coli

Formulation

K9 Cystatin-Cwas filtered (0.4 μm) and lyophilized from 0.5mg/ml supplied in 20mM TRIS, 50mM NaCl, pH 7.5.

Stability

Store lyophilized Cystatin-C K9 at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted Cystatin-C can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Purity

Purity is greater than 95% as visualized by SDS-PAGE.

Amino acid sequence

MKHHHHHH AS PGAGRRGSRP GAVGGAVDAD VGEEGVQQAL DFAVREYNRA SNDAYHSRAL RVLRARKQVV SGMNYFLEVE IGRTRCTKSQ PNLDNCPFHD QPHLMRKTLC SFQIYTVPWL GKTSLVKSSC QDV.

Solubility

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Add deionized water to prepare a working stock solution of 0.5 mg/ml and let the lyophilized pellet dissolve completely.

Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

CST3 k9 is for research use only and not for use in diagnostic or therapeutic procedures.