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Endostatin Human

Endostatin Human Recombinant
RCP0757

Product Overview

Name	Endostatin Human

Description

Endostatin Human Recombinant

Introduction

Once a cluster of cancer cells reaches a diameter of about 1–2 mm, it must develop a blood supply in order to grow larger. Given that diffusion is no longer adequate to supply the cancerous cells with oxygen and nutrients and to remove wastes. Therefore, these cells secrete substances that promote the formation of new blood vessels (angiogenesis), which are vital for the growth and persistence of solid tumors and their metastases. The production of several angiogenic factors (FGF-a, FGF-b, VEGF and VPF) is upregulated by tumors in order to stimulate angiogenesis. However, numerous malignant tumors also generate inhibitors of angiogenesis which include angiostatin and thrombospondin. The angiogenic phenotype is basically the end result of a net balance between the positive and negative regulators of neovascularization mentioned above. Endostatin′s role is to inhibit endothelial proliferation, therefore it is an effective angiogenesis inhibitor.

Source

E.coli.

Physical Appearance

Sterile filtered liquid formulation.

Formulation

The recombinant Human Endostatin is formulated with 30mM Sodium acetate buffer and Mannitol, pH-5.5.

Stability

Endostatin should be stored at 2-8°C. Do NOT Freeze!

Purity

Greater than 95.0% as determined by SDS-PAGE.

Biological Activity

The activity was found to be 16,000IU/mg.

References

Title :Arteriosclerosis, Thrombosis, and Vascular Biology. Publication :ISSN: 1524-4636Copyright © 2010 American Heart Association. All rights reserved. Print ISSN: 1079-5642. Online7272 Greenville Avenue, Dallas, TX 72514. Link :

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http://atvb.ahajournals.org/content/30/6/1220.full.pdf

Precautions

Endostatin Human is for research use only and not for use in diagnostic or therapeutic procedures.