

## 32-3750: Endostatin Recombinant Protein

### Description

Source : E.coli. Endostatin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide having a predicted molecular mass of 20kDa.C-terminal fragment of collagen XVIII that has been shown to act as a potent inhibitor of angiogenesis and tumor growth in vitro and in vivo. Induces tyrosine phosphorylation of Shc (SH2 domain adapter protein) leading to specific inhibition in endothelial cell proliferation.The Endostatin is purified by proprietary chromatographic techniques. 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.

### Product Info

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| <b>Amount :</b>            | 100 µg   |
| <b>Purification :</b>      | Greater than 95.0% as determined by SDS-PAGE.  |
| <b>Content :</b>           | The recombinant Human Endostatin is formulated with 30mM Sodium acetate buffer and Mannitol, pH-5.5. |
| <b>Storage condition :</b> | Endostatin should be stored at 2-8°C.Do NOT Freeze!  |

### Application Note

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