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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Recombinant Human Endostatin (rHuEndostatin)

**CLPRO248**  
**CLPRO248-2**  
**CLPRO248-3**  
**Lot: 706PEND09**

**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.

**Description:** Recombinant Human Endostatin produced in *Pichia Pastoris* is a single, glycosylated, polypeptide having a total molecular mass of 20,000 Dalton 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 (SH<sub>2</sub> domain adapter protein) leading to specific inhibition in endothelial cell proliferation. The rHuEndostatin is purified by proprietary chromatographic techniques.

**Source:** *Pichia Pastoris*.

**Presentation:** 20 µg (CLPRO248), 100 µg (CLPRO248-2), or 1 mg (CLPRO248-3), sterile filtered liquid (5 mg/ml) formulation. The protein was formulated with PBS.

**Stability:** Endostatin although stable at 4°C for 30 days, should be stored desiccated below -20°C for long term storage. **Please avoid Freeze/Thaw cycles.**

**Purity:**

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**Amino Acid Composition:** In total agreement with the expected amino acid composition of native human Endostatin.

**Biological Activity:** The activity calculated by ECE migration inhibition was found to be 50,000IU/mg.

**Laboratory Reagent For Research Use Only**

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4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020  
e-mail: [general@cedarlanelabs.com](mailto:general@cedarlanelabs.com)

**In the USA: Toll Free: 1-800-721-1644**

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138  
e-mail: [service@cedarlanelabs.com](mailto:service@cedarlanelabs.com)