

# Recombinant Mouse Endostatin

(C-6His)

Catalog # EPT193

**Expression Host** Human Cells

**DESCRIPTION** Recombinant Mouse Collagen Alpha-1(XVIII) Chain is

produced by our Mammalian expression system and

the target gene encoding His1591-Lys1774 is

expressed with a 6His tag at the C-terminus.

Accession P39061

**Synonyms** antiangiogenic agent;COL18A1;collagen

alpha-1(XVIII)chain; collagen;type XVIII;Endostatin

Mol Mass 21.2 KDa

**AP Mol Mass** 18 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.1 ng/μg (1 EU/μg) as determined by LAL

test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of PBS, pH

7.4.



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#### RECONSTITUTION

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### **SHIPPING**

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

## **STORAGE**

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

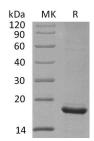
#### **BACKGROUND**

Endostatin, an endogenous non - glycosylated inhibitor of endothelial cell proliferation and angiogenesis. It is produced and/or trimmed by metalloproteinases such as MMP - 2 and MMP - 9, and cathepsins S, B and L. The N - terminal ~27 aa of Endostatin appear to contain the majority of its





activity. This region contains zinc binding sites that are thought to be critical for its anti- endothelial and anti-- tumor effects, as well as multiple cleavage sites that, when used, can modify its activity. Mouse Endostatin shares 96% aa sequence identity with rat and 85-87% with human, bovine and equine Endostatin. It is predominantly expressed in liver, kidney, lung, skeletal muscle and testis. Endostatin inhibits endothelial cell growth by inducing cell cycle arrest in G1 phase and initiating apoptosis. It is also thought to down regulate angiogenesis by blocking VEGF - induced endothelial cell migration. Endostatin may also be involved with down- regulation of angiogenesis after establishment of placental circulation in the pregnant uterus.



# **SDS-PAGE**

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