

# Active Recombinant Human Endostatin

Cat. No. COL18A1-19H Lot. No. (See product label)

## SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Product Overview</b>	Recombinant Human Endostatin produced in E. coli is a single glycosylated polypeptide having a total molecular mass of 20 kDa.
<b>Description</b>	Endostatin has been identified as a C-terminal fragment of Collagen type 18, a recently identified member of a family of collagen-like proteins referred to as multiplexin family. Endostatin specifically inhibits proliferation of endothelial cells although it does not affect the proliferation of EOMA cells. Endostatin also potently inhibits angiogenesis and tumor growth. Endostatin has an important role in endothelial cell adhesion and cytoskeletal organization. Endostatin can be found in vessel walls (elastic fibers) and basement membranes. Recombinant Endostatin expressed in yeast causes G1 arrest of endothelial cells, and endostatin treatment results in apoptosis of HUVE and HMVE cells.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The activity calculated by ECE migration inhibition was found to be 50,000IU/mg.
<b>Endotoxin Level</b>	Less than 1EU/µg of rHuEndostatin as determined by LAL method.

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**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20oC. Further dilutions should be made in appropriate buffered solutions.

**Storage** Store it under sterile conditions at -20 ~ -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** COL18A1 collagen, type XVIII, alpha 1 [ Homo sapiens ]

**Official Symbol** COL18A1

**Synonyms** FLJ27325; KNO; KNO1; MGC74745; OTTHUMP00000115472; OTTHUMP00000115473; alpha 1 type XVIII collagen; antiangiogenic agent; endostatin; multi-functional protein MFP; XVIII chain precursor; Collagen alpha-1; XVIIIchain precursor; collagen, type XVIII, alpha 1; human type XVIII collagen; COL18A1

**Gene ID** 80781

**mRNA Refseq** NM\_030582

**Protein Refseq** NP\_085059

**MIM** 120328

**UniProt ID** P39060

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<b>Chromosome Location</b>	21q22.3
<b>Function</b>	binding, extracellular matrix structural constituent, metal ion binding, protein binding, structural molecular activity, zinc ion binding.

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