

## Active Recombinant Human COL18A1 Protein (184 aa)

Cat. No. COL18A1-159C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	<p>Recombinant Endostatin expressed in yeast, which causes G1 arrest of endothelial cells. Endostatin treatment results in apoptosis of HUVE and HMVE cells.</p> <p>Recombinant human Endostatin is a 20.2 kDa protein consisting of 184 amino acid residues.</p>
<b>Species</b>	Human
<b>Source</b>	Yeast
<b>Protein Length</b>	184
<b>Description</b>	<p>Endostatin is a cleaved product of the carboxyl-terminal domain of collagen XVIII. It functions as an anti-angiogenic cytokine that is expressed in various organs especially with high levels in liver, lung, and kidney. Endostatin inhibits angiogenesis by blocking the pro-angiogenic activities of VEGF and FGF-basic.</p>
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	Determined by Endothelial Cell Tube Formation. The cells treated with 10 µg/mL Endostatin showed significant anti-angiogenesis effect.
<b>Molecular Mass</b>	~20.2 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	AHSHRDFQPVLHLVALNSPLSGGMRGIRGADFQCFQQARAVGLAGTFRAFLSSRLQ DLYSIVRRADRAAVPIVNLKDELLFPSWEALFSGSEGPLKPGARIFSFDFGKDVLRHPT

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WPQKSVWHGSDPNGRRLTESYCETWRTEAPSATGQASSLLGGRLLGQSAASCHH  
AYIVLCIENSFMTASK

**Endotoxin** Endotoxin level is less than 0.1 ng/μg (1 EU/μg) of Endostatin.

**Purity** Greater than 97% by SDS-PAGE

**Storage** The lyophilized Endostatin is stable for a few weeks at room temperature, but best stored at -20 centigrade. For the first use, reconstitute in water, aliquot and store at -20 centigrade to avoid multiple freeze-thaws.

**Storage Buffer** The sterile filtered solution was lyophilized with 17 mM citric-phosphate buffer, pH 6.2.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

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

**Official Symbol** COL18A1

**Synonyms** COL18A1; collagen, type XVIII, alpha 1; KNO, Knobloch syndrome, type 1; collagen alpha-1(XVIII) chain; endostatin; KNO1; KS; antiangiogenic agent; multi-functional protein MFP; KNO; FLJ27325; FLJ34914; MGC74745;

**Gene ID** 80781

**mRNA Refseq** NM\_030582

**Protein Refseq** NP\_085059

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<b>MIM</b>	120328
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<b>UniProt ID</b>	P39060
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