

Active Recombinant Human COL18A1 Protein (184 aa)

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

SPECIFICATION

Product Overview	Recombinant Endostatin expressed in yeast, which causes G1 arrest of endothelial cells. Endostatin treatment results in apoptosis of HUVE and HMVE cells. Recombinant human Endostatin is a 20.2 kDa protein consisting of 184 amino acid residues.
Species	Human
Source	Yeast
Protein Length	184
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Determined by Endothelial Cell Tube Formation. The cells treated with 10 µg/mL Endostatin showed significant anti-angiogenesis effect.
Molecular Mass	~20.2 kDa, observed by reducing SDS-PAGE.
AA Sequence	AHSHRDFQPVLHLVALNSPLSGGMRGIRGADFQCFQQARAVGLAGTFRAFLSSRLQ DLYSIVRRADRAAVPIVNLKDELLFPSWEALFSGSEGPLKPGARIFSFDGKDVLRHPT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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 ₂ 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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MIM	120328
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UniProt ID	P39060
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