

**DATASHEET**  
Version 20181206**Endostatin, Human****Cat. No.:** Z02533-20**Size:** 20.0 ug**Synonyms:** Endostatin;**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. 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.

**Amino Acid Sequence:**

00001 AHSHRDFQPV LHLVALNSPL SGGMRGIRGA DFQCFQQARA  
00041 VGLAGTFRAF LSSRLQDLYS IVRRADRAAV PIVNLKDELL  
00081 FPSWEALFSG SEGPLKPGAR IFSFDGKDV L RHPTWPQKSV  
00121 WHGSDPNRRR LTESYCTWR TEAPSATGQA SLLGGRLLG  
00161 QSAASCHHAY IVLCIENSFM TASK

**Source:** *P. pastoris***Species:** Human

**Biological Activity:** Determined by Endothelial Cell Tube Formation. The cells treated with 10<sup>-6</sup>g/ml Endostatin showed significant anti-angiogenesis effect.

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

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

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

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