

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Endostatin, Human

Catalog Number: BK0337-20µg

Source: *P. pastoris*

Quantity: 20µg

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.

Molecular Weight:

~20.2kDa, observed by reducing SDS-PAGE.

Purity:

Greater than 97% by SDS-PAGE

Biological Activity:

Determined by Endothelial Cell Tube Formation. The cells treated with 10µg/ml Endostatin showed significant anti-angiogenesis effect.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

The sterile filtered solution was lyophilized with 17

mM citric-phosphate buffer, pH 6.2.

AA Sequence:

AHSHRDFQPVLHLVALNSPLSGGMRGIRGAD-
FQCFQARAVGLAGTFRA-
FLSSRLQDLYSIVRRA-
DRAAVPIVNLKDELLFPSWEALFSGSEGPLKP-
GARIFSFQKDKDVLRHPT-
WPQKSVWHGSDPNGRRLTESYCETWRTE-
APSATGQASSLLGGRLLGQSAASCHHAYI-
VLCIENSFMTASK

Endotoxin:

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

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

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.

Usage:

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