

Endostatin
Catalog # PVGS1021**Specification**

Endostatin - Product Information

Primary Accession [P39060](#)
Species
Human

Sequence
Ala1571-Lys1754

Purity
> 97% as analyzed by SDS-PAGE

Endotoxin Level
< 1 EU/ µg of protein by gel clotting method

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

Expression System
P. pastoris

Theoretical Molecular Weight
20.2 kDa

Formulation **Lyophilized from a sterile filtered solution in 17 mM citric-phosphate buffer, pH 6.2.**

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH₂O up to 100 µg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Endostatin - Additional Information

Gene ID 80781

Other Names
Collagen alpha-1(XVIII) chain, Endostatin, Non-collagenous domain 1, NC1, COL18A1 (HGNC:2195)

Target Background

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. In-vitro studies have shown endostatin blocks the proliferation and organization of endothelial cells into new blood vessels. In animal studies endostatin inhibited angiogenesis and growth of both primary tumors and secondary metastasis.

Endostatin - Protein Information

Name COL18A1 ([HGNC:2195](#))

Function

Probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.

Cellular Location

Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250|UniProtKB:P39061} [Endostatin]: Secreted. Secreted, extracellular space, extracellular matrix, basement membrane

Tissue Location

Detected in placenta (at protein level) (PubMed:32337544). Present in multiple organs with highest levels in liver, lung and kidney.

Endostatin - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Endostatin - Images