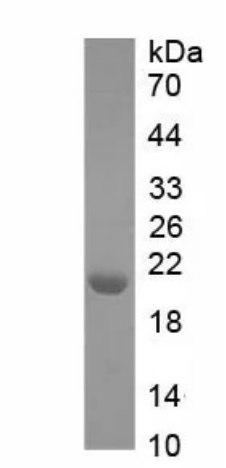
Active Endostatin (ES)

Catalog#:PHH12393

概述（Summary）

纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【His1154-Ser1335】
Accession #	NP_569712
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	21.58 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in ddH_2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

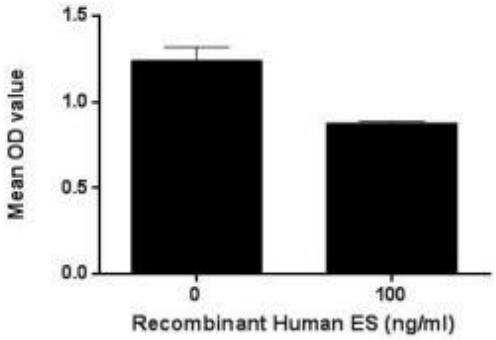


Figure 1. ES inhibit proliferation of EV304 cells

Endostatin (ES) is a naturally occurring, 20kDa C-terminal fragment derived from type XVIII collagen. It is reported to serve as an anti-angiogenic agent, similar to angiostatin and thrombospondin. Endostatin is a broad-spectrum angiogenesis inhibitor and may interfere with the pro-angiogenic action of growth factors such as basic fibroblast growth factor (bFGF/FGF-2) and vascular endothelial growth factor (VEGF). To test the effect of ES on inhibit the VEGF basic-dependent proliferation of ECV304 endothelium cell line, cells were seeded into triplicate wells of 96-well plates at a density of 5, 000 cells/well when the cell attached, replaced with serum-free standard DMEM overnight. Then the medium was replaced with 2% serum standard DMEM which contain 10ng/mL of VEGFA and various concentrations of ES. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37℃. The result was shown in Figure 1. It was obvious that ES (100ng/mL) significantly inhibit cell proliferation of EV304 cells.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.