

Endostatin (ES) Active Protein | ES active protein

Active Endostatin (ES)

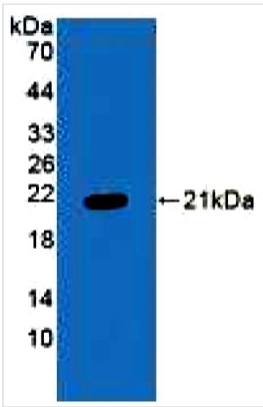
CATALOG # AAA149235	HOST 293F cell	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Endostatin (ES); Active Endostatin (ES); ES active protein

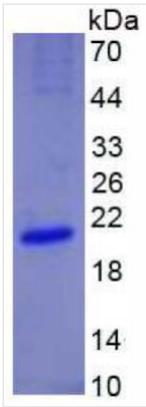
PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Homo sapiens (Human)
Purity/Purification	>98%
Form/Format	PBS, pH7.4, containing 5% Trehalose.
Concentration	Original Concentration: 150ug/mL (varies by lot)
Applicable Applications for ES active protein	Activity Assay, Cell Culture
Source	Eukaryotic expression.
Residues	His1154~Ser1335
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	9.1
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.5mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition



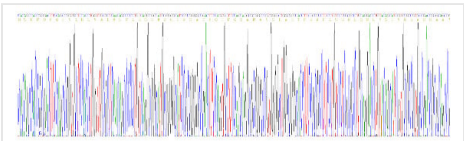
WB (Western Blot)

Figure 4. Western BlotSample: Recombinant ES, Human;Antibody: Rabbit Anti-Human ES Ab



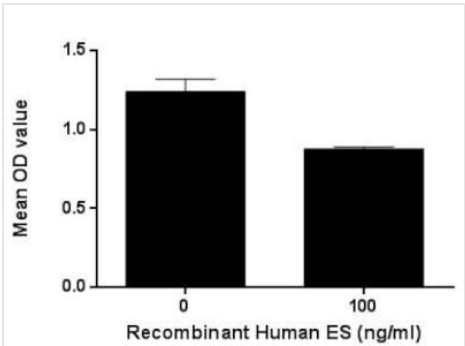
SDS_PAGE

Figure 3. SDS-PAGE



Identification

Figure 2. Gene Sequencing (extract)



Application Data

Figure 1. ES inhibit proliferation of EV304 cellsActivity: 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, 10uL 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°C. The result was shown in Figure 1. It was obvious that ES (100ng/mL) significantly inhibit cell proliferation of EV304 cells.

HSRDFQ PVLHLVALNS PLSGGMRGIR GADFQCFQQA RAVGLAGTFR
AFLSSRLQDL YSIVRRADRA AVPIVNLKDE LLFPSWEALF SGSEGPLKPG
ARIFSFDGKD VLRHPTWPK SVWHGSDPNG RRLTESYCET WRTEAPSATG
QASSLLGGRL LGQSAASCHH AYIVLCIENS FMTAS

Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	47523166
NCBI GeneID	396844
NCBI Accession #	NP_999011.1
NCBI GenBank Nucleotide #	NM_213846.1
UniProt Accession #	P07634

Molecular Weight	Predicted Molecular Mass: 21.6kDa Accurate Molecular Mass: 21kDa as determined by SDS-PAGE reducing conditions
NCBI Official Full Name	natriuretic peptides B
NCBI Official Symbol	NPPB
NCBI Official Synonym Symbols	BNP; BNP1
NCBI Protein Information	natriuretic peptides B
UniProt Protein Name	Natriuretic peptides B
UniProt Gene Name	NPPB
UniProt Synonym Gene Names	BNP-32; BNP-26

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/293f-homo-sapiens-human-active-protein/endostatin-es/149235>