

Human VEGF121 protein, His tag (active)

Cat. No. GTX00136-pro

Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

VEGFA (Vascular endothelial growth factor A) is a growth factor and can be cleaved into several isoforms, including VEGF121. It induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It is accepted that the VEGF121 isoform stimulates the proliferation of vein endothelial cells. Thus, proliferation assay of recombinant human VEGF121 was conducted using ECV-304 cells. Briefly, ECV-304 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard RPMI-1640 prior to the addition of various concentrations of VEGF121. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of ECV-304 cells after incubation with VEGF121 for 48h observed by inverted microscope. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with human recombinant VEGF121 for 48h. And VEGF121 significantly increased cell viability of ECV-304 cells.

Observed MW (kDa) 17/18 kDa.

Properties

Form Lyophilized powder

Buffer Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.

Preservative ProClin 300

Storage For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.

Region/Sequence N-terminal His-Tag; Pro28~Arg147 (NP_001020537.2)

Expression System E. coli

Purity > 97%

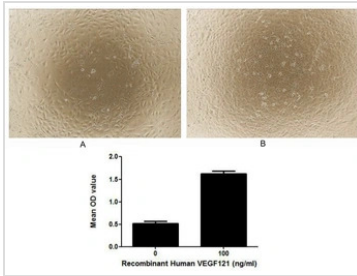
Endotoxin < 1 EU/µg

Conjugation Unconjugated

Note For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



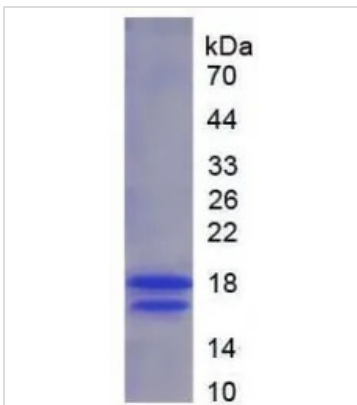
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DATA IMAGES

GTX00136-pro Functional Assay Image

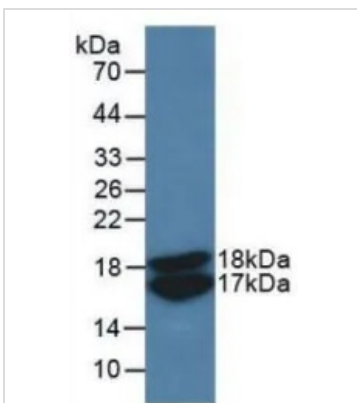
Cell proliferation effect of GTX00136-pro Human VEGF121 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated ECV-304 cells cultured in RPMI-1640 for 48hrs.

(B) ECV-304 cells cultured in RPMI-1640, stimulated with 100 ng/ml VEGF121 for 48hrs.


GTX00136-pro Image

SDS-PAGE analysis of GTX00136-pro Human VEGF121 protein (active).


GTX00136-pro Image

WB analysis of GTX00136-pro Human VEGF121 protein (active).



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