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Product Datasheet

Rat VEGFA protein, His tag (active), Unconjugated GTX00343-PRO

Article Name	Rat VEGFA protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00343-PRO
Supplier Catalog Number	GTX00343-pro
Alternative Catalog Number	GTX00343-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	83785
UniProt	P16612
Buffer	Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), 0.01% SKL, 1mM DTT, 5% Trehalose, ProClin 300.
Expression System	HEK293 cells
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ala27~Arg190 (NP_001103804.1)

Application Notes	Vascular endothelial growth factor A (VEGF-A), a glycosylated mitogen, is known to be a vascular permeability factor and an endothelial cell growth factor secreted by the smooth muscle and endothelial cells. It has been reported that VEGF-A induces vascular permeability and growth, promotes monocyte/macrophage migration, and inhibits cell apoptosis and so on. To test the effect of VEGF-A on cell proliferation of ECV304 endothelium cell line, 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 DMEM prior to the addition of various concentrations of VEGFA. After incubated for 72h, 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 measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37C . Cell proliferation of ECV304 cells after incubation with VEGFA for 72h observed by inverted microscope. VEGFA significantly promoted cell proliferation of ECV304 cells. The ED50 for this effect is typically 5. 58-9. 98 ng/ml.
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