

Active Recombinant Rat Vegfa protein, His-tagged, 27-190aa

Cat. No. Vegfa-38R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Vegfa protein(27-190aa), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	27-190aa
Form	PBS, pH7.4, containing 1mM DTT, 5% trehalose and Proclin300.
Bio-activity	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 2,000 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, 10μ 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 .

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Molecular Mass	22kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>98%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Rattus norvegicus]
Official Symbol	Vegfa
Synonyms	VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; Vegf; VEGF164
Gene ID	83785
mRNA Refseq	NM_001110333
Protein Refseq	NP_001103803

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