



[Go to Product page](#)

Datasheet for ABIN6239764

VEGFA Protein (AA 27-190) (His tag)

2 Images

Overview

Quantity:	50 µg
Target:	VEGFA
Protein Characteristics:	AA 27-190
Origin:	Rat
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This VEGFA protein is labelled with His tag.
Application:	Cell Culture (CC), Activity Assay (AcA)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	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, 10µL of CCK-8 solution was added to each well of the plate, then measure the absorbance at

Product Details

450nm using a microplate reader after incubating the plate for 1-4 hours at 37oC . Cell proliferation of ECV304 cells after incubation with VEGFA for 72h observed by inverted microscope was shown in Figure 1.

Target Details

Target:	VEGFA
Abstract:	VEGFA Products
Background:	Alternative Names: VEGF, VEGF-A, VPF, Vascular Endothelial Cell Growth Factor A, Vascular Permeability Factor
Molecular Weight:	22kDa
UniProt:	P16612
Pathways:	RTK Signaling , Glycosaminoglycan Metabolic Process , Regulation of Cell Size , Tube Formation , Signaling Events mediated by VEGFR1 and VEGFR2 , Platelet-derived growth Factor Receptor Signaling , VEGFR1 Specific Signals , VEGF Signaling

Application Details

Application Notes:	Isoelectric Point: 7.9
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 0.01 % SKL, 1 mM DTT, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

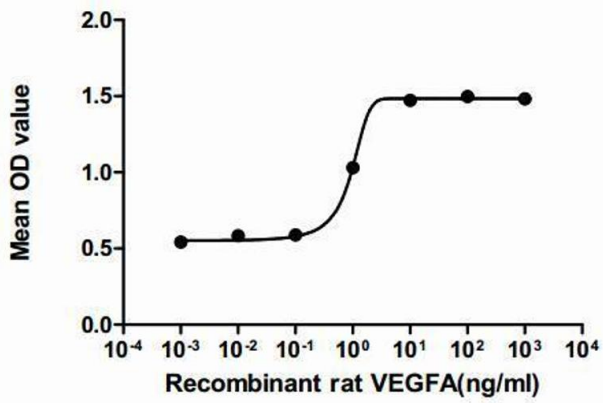


Figure 2. The dose-effect curve of VEGFA on ECV304 cells.

Image 1. The dose-effect curve of VEGFA was shown in Figure 2. It was obvious that VEGFA significantly promoted cell proliferation of ECV304 cells. The ED50 for this effect is typically 5.58 to 9.98 ng/mL.

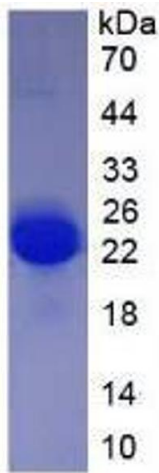


Image 2.