

## VEGF 121, Human CellExp™, human recombinant

<b>CATALOG #:</b>	6484-10	10 µg
	6484-50	50 µg
<b>ALTERNATE NAMES:</b>	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.	
<b>SOURCE:</b>	Human 293 Cell Expressed	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	37 kDa, homodimer; 50 kDa, homotrimer, glycosylated	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein	
<b>FORMULATION:</b>	Lyophilized from PBS	
<b>RECONSTITUTION:</b>	Reconstitute in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.	
<b>STORAGE CONDITIONS:</b>	Aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.	

**ADVANTAGES:**

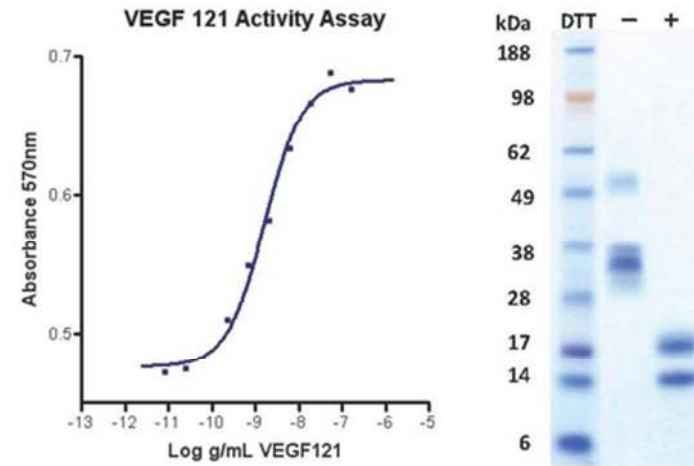
- Animal-derived product free
- High Activity
- Authentic Glycosylation

**DESCRIPTION:**

VEGF is an important signaling protein involved in both vasculogenesis and angiogenesis. As its name implies, VEGF activity has been mostly studied on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g. stimulation monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells). VEGF mediates increased vascular permeability, induces angiogenesis, vasculogenesis and endothelial cell growth, promotes cell migration, and inhibits apoptosis. In vitro, VEGF has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. Elevated levels of this protein are linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.

**BIOLOGICAL ACTIVITY:**

ED<sub>50</sub> is typically 2 to 8 ng/mL. The specific activity was determined by the dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).



Human Cell<sup>exp</sup> Human Recombinant VEGF 121

**RELATED PRODUCTS:**

- Human Cell<sup>exp</sup> Human Recombinant VEGF 165 (Cat # 6485-10, -50)
- VEGF121, human recombinant (Cat. No. 4963-10, -50, -1000)
- VEGF165, human recombinant (Cat. No. 4363-10, -50, -1000)
- VEGF165, murine recombinant (Cat. No. 4364-10, -50, -1000)
- VEGF165, rat recombinant (Cat. No. 4365-10, -50, -1000)
- VEGF120, murine recombinant (Cat. No. 4964-10, -100, -1000)
- VEGF-B, human recombinant (Cat. No. 4642-10, -20, -1000)
- VEGF-C, human recombinant (Cat. No. 4633-10, -50, -1000)
- VEGF-C, murine recombinant (Cat. No. 4634-10, -50, -1000)
- VEGF-C, rat recombinant (Cat. No. 4635-10, -50, -1000)
- VEGF-D, human recombinant (Cat. No. 4343-10, -50, -1000)

**FOR RESEARCH USE ONLY! Not to be used in humans.**