

**HumanKine<sup>®</sup> VEGF121 (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

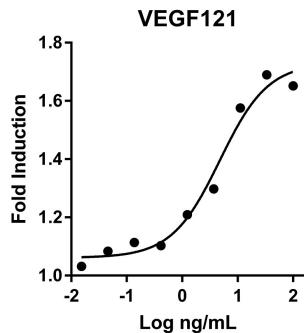
Animal-free Recombinant Human VEGF121 is expressed in human 293 cells as a glycosylated cytokine with an apparent molecular mass of 37 kDa as dimer and 50 kDa as trimer. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media. The cytokine is produced in a human cell expression system with serum free, chemically defined media. VEGF121 is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability.

Alternative Names	L VEGFA, MVCD1, Vascular permeability factor, VEGF, VEGF A, VEGF121, VEGFA, VPF
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived VEGF121 protein

**Specifications**

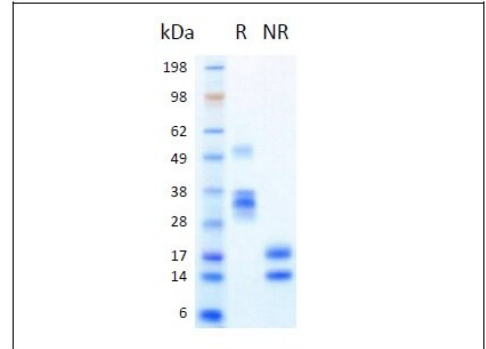
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells)	Typically $\leq 15$ ng/mL EC50
Molecular Mass	SDS-PAGE	37 kDa, homodimer; 50 kDa, homotrimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ $\mu$ g

**Activity Data**



The activity was determined by the dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells) using Promega CellTiter96<sup>®</sup> Aqueous Non-Radioactive Cell Proliferation Assay.

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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