

**HumanKine<sup>®</sup> VEGF165 (Recombinant Human)**



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

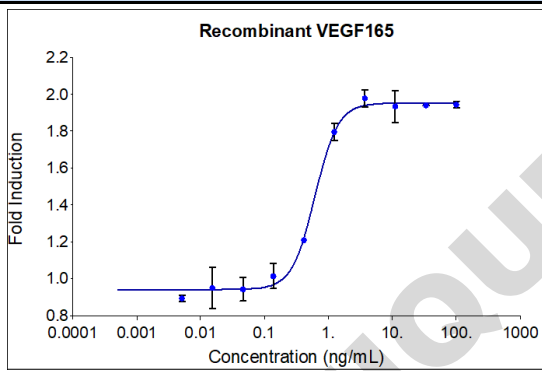
Animal-free Recombinant Human VEGF 165 is expressed in human 293 cells as a homodimeric glycoprotein with an apparent molecular mass of 45 kDa. The E. coli expressed protein is a monomer-dimer mixture with a molecular mass 18 to 34 kDa. The cytokine is produced in a human cell expression system with serum free, chemically defined media. VEGF, also known as vascular permeability factor (VPF) or vasculotropin, is a homodimeric 34-45 kDa, heparin-binding glycoprotein with potent angiogenic, mitogenic, and vascular permeability enhancing activities specific for endothelial cells.

Alternative Names	L VEGFA, MVCD1, Vascular permeability factor, VEGF, VEGF A, VEGF165, VEGFA, VPF
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived VEGF165 protein
Species Reactivity	human,pig

**Specifications**

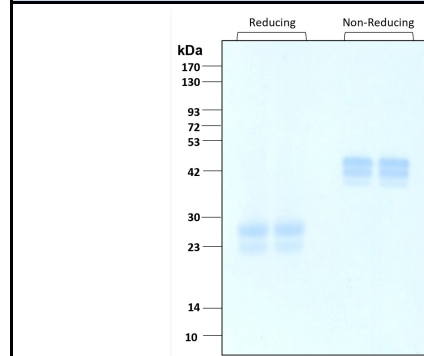
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells)	0.3-3.75 ng/mL
Molecular Mass	SDS-PAGE	22 to 30 and 50 kDa reduced, 40 to 50 and 75 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

**Activity Data**



Recombinant human VEGF165 (HZ-1038) induces dose-dependent proliferation of the HUVEC (human umbilical vein endothelial) cell line. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> cell viability reagent. HUVEC cells were treated with increasing concentrations of recombinant VEGF165 for 96 hours. The EC<sub>50</sub> was determined using a 4-parameter non-linear

**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 to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant serum albumin (HSA). Gently swirl or tap vial to mix.

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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