

HumanKine[®] VEGF121 (Recombinant Human)



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

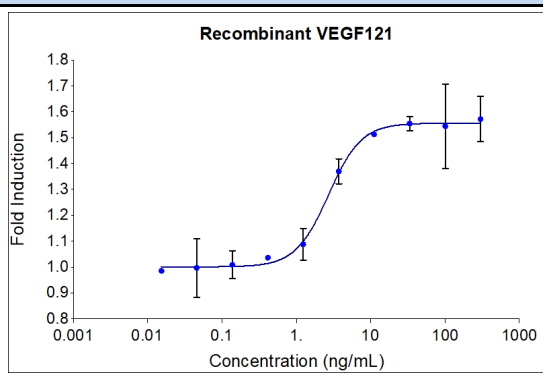
Animal-free Recombinant Human VEGF121 is expressed in human 293 cells as a glycosylated cytokine with an apparent molecular mass of 28 kDa as dimer and 40 kDa as trimer. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media. The cytokine is produced 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

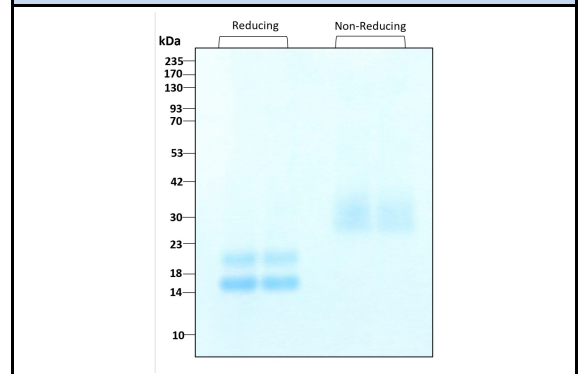
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells)	1.5-9 ng/mL in Reporter cells, ≤ 15 ng/mL HUVEC cells
Molecular Mass	SDS-PAGE	17 and 21 kDa reduced, 28 to 40 kDa non-reduced, homodimer and homotrimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human VEGF121 (HZ-1204) induces dose-dependent proliferation of the HUVEC (human umbilical vein endothelial) cell line. Cell number was quantitatively assessed by PrestoBlue[®] cell viability reagent. HUVEC cells were treated with increasing concentrations of recombinant VEGF121 for 96 hours. The EC₅₀ 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 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human 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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