

Catalog Number: HZ-1204

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

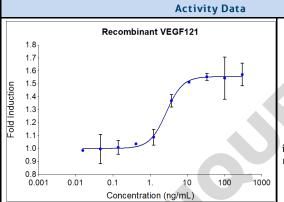
Endotoxin Free

Product Description

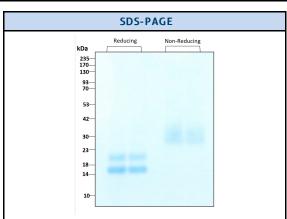
Animal-free Recombinant Human VEGF121 is expressed in human 293 cells as a glycosylated cytokine with an apparent molecular mass of 28 kDa as dimer and 40 kDa as trimer. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media. The cytokine is produced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

Specifications				
Test	Method	Specification		
Activity	Dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells)	Typically ≤ 15 ng/mL		
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		



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 4parameter non-linear



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Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

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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 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.				

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	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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