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## VEGFA Recombinant Human VEGF-121 (Sf9)

Catalog No.	CRV010A CRV010B CRV010C	Quantity:	2 μg 10 μg 1.0 mg	
Alternate Names: Description:	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF Vascular endothelial growth factor 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 of 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.			
	VEGF121 is acidic and freel properties and, although a s secreted. VEGF189 is very	rnatively spliced transcript variants encoding different isoforms have been described: F121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding erties and, although a signicant proportion remains cell-associated, most is freely eted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly eparin and the extracellular matrix, although it may be released as a soluble form by arin, heparinase or plasmin.		
Gene ID:	Recombinant Human Vascu two glycosylated, polypeptid 7422		tor 121 is a homodimer containing s each.	
Protein Accession No:	P15692-9			
Source:	Insect Cells (Sf9)			
Molecular Weight:	~36 kDa (dimer), ~18 kDa (r	monomer)		
Formulation:	Lyophilized from a solution containing 50 mM acetic acid.			
Purity:	> 95% by SDS-PAGE			
Biological Activity:	The ED <sub>50</sub> as determined by endothelial cells (HUVEC), i		ration of human umbilical vein e of 1-4 ng/ml.	
Amino Acid Sequence:		FMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS ECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN DKPR R		
Reconstitution:	<b>Centrifuge vial prior to op</b> least 50 µg/ml.	<b>vial prior to opening.</b> Add sterile 50mM acetic acid to a concentration of at nl.		
Storage & Stability:	store desiccated below -20° 1 week. For long term storag it is recommended to add a freeze/thaw cycles.	C. Upon reconstitution the p ge, aliquot and freeze at -20 carrier protein (0.1% HSA c	,	
NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.				



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