

### **Animal-Free Recombinant Human VEGF 121**

Catalog # PBG10496

## **Specification**

#### Animal-Free Recombinant Human VEGF 121 - Product Information

#### Animal-Free Recombinant Human VEGF 121 - Additional Information

## **Description**

VEGF is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. VEGF signals through three receptors; <em>fms</em>-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product. Due to its increased acidity, VEGF<sub>121</sub> circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates. Recombinant human VEGF<sub>121</sub> is a 28.4 kDa disulfide-linked homodimeric protein consisting of two 121 amino acid polypeptide chains.

# **Biological**Activity

Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 0.2-0.4 ng/ml.

## **Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### Endotoxin

Endotoxin level is  $<0.1 \text{ ng}/\mu\text{g}$  of protein ( $<1\text{EU}/\mu\text{g}$ ).

### **Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

# Storage

-20°C

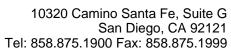
#### **Precautions**

Animal-Free Recombinant Human VEGF 121 is for research use only and not for use in diagnostic or therapeutic procedures.

## **Animal-Free Recombinant Human VEGF 121 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation





• Flow Cytomety
• Cell Culture

Animal-Free Recombinant Human VEGF 121 - Images