

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; *fms*-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, VEGF₁₂₁ circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates. Recombinant human VEGF₁₂₁ 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 ng/ µg of protein (<1EU/ µg).

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 Cytometry](#)
- [Cell Culture](#)

Animal-Free Recombinant Human VEGF 121 - Images