

**Recombinant Rat VEGF**  
**Catalog # PBG10471****Specification**

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**Recombinant Rat VEGF - Product Information****Recombinant Rat VEGF - 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. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the 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. Recombinant rat VEGF is a 38.5 kDa disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide chains.

**Biological Activity**

Determined by the dose-dependent stimulation of the proliferation of Human umbilical vein endothelial cells (HUVEC). The expected **ED<sub>50</sub>** is 4.0-8.0 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**

Recombinant Rat VEGF is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Rat VEGF - 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](#)

## **Recombinant Rat VEGF - Images**