10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Recombinant Rat VEGF
Catalog # PBG10471

Specification

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 endothellial 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.

BiologicalActivity
Determined by the dose-dependent stimulation of the proliferation of Human umbilical vein endothelial cells (HUVEC). The expected ED₅₀ 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

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- Flow Cytomety
- Cell Culture

Recombinant Rat VEGF - Images