

# Active Recombinant Rat Vegf165 Protein

**Cat. No.** Vegfa-199V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Rat Vegf165 Protein without tag was expressed in CHO.  |
| <b>Species</b>          | Rat  |
| <b>Source</b>           | CHO  |
| <b>Description</b>      | Vascular Endothelial Growth Factor (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, Vascular Endothelial Growth Factor (VEGF) plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates Vascular Endothelial Growth Factor (VEGF) in the induction of tumor metastasis and intra-ocular neovascular syndromes. Vascular Endothelial Growth Factor (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. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| <b>Bio-activity</b>     | ED50 < 4 ng/mL, measured in a cell proliferation assay using HUVEC cells, corresponding to a specific activity of >2.5 5 units/mg  |
| <b>Molecular Mass</b>   | 35-48 kDa, observed by non-reducing SDS-PAGE.  |
| <b>AA Sequence</b>      | APTTEGEQKAHEVVKFM DVYQRSYCRPIETLVDIFQEYPDEIEYIFK PSCVPLMRCAG<br>CCNDEALECVPTSES NVTMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTKPEN  |

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HCEPCSERKHLFVQDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

**Endotoxin** < 0.2 EU/μg, determined by LAL method.

**Purity** > 95% as analyzed by SDS-PAGE and HPLC.

**Storage** Lyophilized recombinant Rat Vascular Endothelial Growth Factor 165 (VEGF165) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrVEGF165 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

**Gene Name** [Vegfa vascular endothelial growth factor A \[ Rattus norvegicus \]](#)

**Official Symbol** [Vegfa](#)

**Synonyms** VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; Vegf; VEGF164;

**Gene ID** [83785](#)

**mRNA Refseq** [NM\\_001110333](#)

**Protein Refseq** [NP\\_001103803](#)

**UniProt ID** [P16612](#)

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