

## Active Recombinant Mouse Vegf

**Cat. No.** Vegf-1882M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Vascular Endothelial Growth Factor A164 (rmVEGF-A164) produced in <i>Pichia pastoris</i> is a disulfide-linked homodimer containing two polypeptide chains of 165 amino acids each.
<b>Species</b>	Mouse
<b>Source</b>	<i>P.pastoris</i>
<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>	Lyophilized after extensive dialysis against 25 mM HEPES and 150 mM NaCl, pH 7.0.
<b>Bio-activity</b>	Resuspend cells in assay media containing 10 % HI-FBS and transfer 100 ul/well to assay plate (5,100 cells/well). Serial dilute murine VEGF in assay media containing 10 % HI-FBS and transfer 100ml/well to cells in assay plate. Final assay volume is 200 ml/well, containing 10 % HI-FBS, and murine VEGF as indicated 89 hours. Add

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20 ml of Promega Substrate Cell Titer 96 Aqueous One Solution Reagent to each well, Incubate 37°C and read at OD 490 nm. The ED50 for the effect is typically 4.1 - 6.2 ng/ml.

**Molecular Mass** 39kDa, observed by non-reducing SDS-PAGE.

**AA Sequence** Ala27-Arg190, expressed with an N-terminal Met.

**Endotoxin** <1.0 eu/μg,="" determined="" by="" la="">

**Purity** >97% as analyzed by reducing SDS-PAGE

**Storage** Lyophilized recombinant protein remains stable up to 12 months at -80°C from date of receipt. Upon reconstitution, rmVEGF-A164 should be stable up to 4 week at 4°C or up to 6 months at -20°C.

**Reconstitution** Reconstituted in ddH2O at 100 μg/ml.

## GENE INFORMATION

**Gene Name** [Vegfa vascular endothelial growth factor A \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** Vegf

**Synonyms** Vegfa; Vpf; Vegf; Vegf120; Vegf164; Vegf188; vascular endothelial growth factor A; vascular permeability factor

**Gene ID** [22339](#)

**UniProt ID** [Q00731](#)

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<b>Chromosome Location</b>	17 C; 17 22.79 cM
<b>Pathway</b>	Bladder cancer, organism-specific biosystem; Cellular response to hypoxia, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem
<b>Function</b>	cell surface binding; chemoattractant activity; cytokine activity; cytokine activity

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