

Active Recombinant Mouse Vegf

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

SPECIFICATION

Product Overview	Recombinant mouse Vascular Endothelial Growth Factor A164 (rmVEGF-A164) produced in Pichia pastoris is a disulfide-linked homodimer containing two polypeptide chains of 165 amino acids each.
Species	Mouse
Source	P.pastoris
Description	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.
Form	Lyophilized after extensive dialysis against 25 mM HEPES and 150 mM NaCl, pH 7.0.
Bio-activity	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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Chromosome Location	17 C; 17 22.79 cM
Pathway	Bladder cancer, organism-specific biosystem; Cellular response to hypoxia, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem
Function	cell surface binding; chemoattractant activity; cytokine activity; cytokine activity

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