Active Recombinant Mouse Vegfa

Cat. No. Vegfa-530M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse VEGF 164 (164aa).
Species	Mouse
Source	Sf9 Cells
Description	Mouse vascular endothelial growth factor 164 (VEGF 164) is produced as a homodimer. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. It is a specific mitogen for vascular endothelial cells and a strong angiogenic factor in vivo. In addition to its action as a mitogen it is a potent vascular permeability factor (VPF) in vivo and is also a chemoattractant for monocytes and endothelial cells. It induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It may play a role in increasing vascular permeability during lactation, when increased transport of molecules from the blood is required for efficient milk protein synthesis.
Form	Lyophilized.
Bio-activity	The ED50 for stimulation of cell proliferation by human umbilical vein endothelial cells for VEGF 164 has been determined to be in the range of 1-5ng/ml.
Molecular Mass	~48kDa
Purity	≥95% (SDS-PAGE)

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Stability	Stable for at least 6 months after receipt when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. For long term storage we recommend to add at least 0.1% human or bovine serum albumin.

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Mus musculus]
Official Symbol	Vegfa
Synonyms	VEGFA; vascular endothelial growth factor A; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188;
Gene ID	22339
mRNA Refseq	NM_001025250
Protein Refseq	NP_001020421
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem;
Function	cell surface binding; chemoattractant activity; cytokine activity; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial

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	growth factor receptor 2 binding; vascular endothelial growth factor receptor binding;

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