

Recombinant Mouse Vegfa protein, His/S-tagged

Cat. No. Vegfa-166M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Vegfa fused with His/S tag was expressed in E. coli.

Species Mouse

Source E.coli

Description

This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms.

Form Lyophilized from sterile PBS, pH 7.4

Purity > 95 % as determined by SDS-PAGE

Storage Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

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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

UniProt ID Q00731

Chromosome Location 17 C; 17 22.79 cM

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

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