

Recombinant Rat Vegfa protein, His/S-tagged

Cat. No. Vegfa-165R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Vegfa fused with His/S tag was expressed in E. coli.
Species	Rat
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 [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
Chromosome Location	9q12
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Hemostasis, organism-specific biosystem; Hypertrophy Model, organism-specific biosystem;
Function	cell surface binding; cell surface binding; chemoattractant activity; chemoattractant activity; cytokine activity; cytokine activity; fibronectin binding; fibronectin binding; growth factor activity; growth factor activity; heparin binding; heparin binding; platelet-derived growth factor receptor binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor

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receptor 1 binding; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding; vascular endothelial growth factor receptor binding;

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