

Recombinant Rat vascular endothelial growth factor A, His-tagged

Cat. No. Vegfa-677R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VEGFA, 206-325aa Rat, His tag, E.coli
Species	Rat
Source	E.coli
ProteinLength	206-325 a.a.
Description	Vascular endothelial growth factor A isoform 3, also known as VEGFA, belongs to the PDGF/VEGF growth factor family. It is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. VEGFA induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It has been speculated that VEGF may function as a tumor angiogenesis factor in vivo because the expression pattern of VEGF is consistent with a role in embryonic angiogenesis. Recombinant Rat VEGFA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 50% glycerol
Molecular Mass	16.7 kDa (145aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHPMAPTTE GEQKAHEVVK FMDVYQRSYC RPIETLVDFI QEYPDEIEYI FKPSVCPLMR CAGCCNDEAL ECVPTSESNN

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TMQIMRIKPH QSQHIGEMSF LQHSRCECRP KKDRTKPEKC DKPRR

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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

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;

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growth factor activity; growth factor activity; heparin binding; heparin bindin

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