

Active Recombinant Rat Vegfa

Cat. No. Vegfa-9928R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat VEGF was expressed in CHO Cells.
Species	Rat
Source	CHO
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 PBS.
Bio-activity	ED ₅₀ < 4 ng/ml, measured in cell proliferation assay using huvec cells, corresponding to a specific activity of > 2.5 x 10 ⁵ units/mg
Molecular Mass	35-48 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	Ala27-Arg190.

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Endotoxin	< 0.2 EU/μg, determined by LAL
Purity	>95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrVEGF165 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Rattus norvegicus (Norway rat)]
Official Symbol	VEGF
Synonyms	Vegfa; VPF; Vegf; VEGF-A; VEGF164; vascular endothelial growth factor A; vascular permeability factor
Gene ID	83785
UniProt ID	P16612
Chromosome Location	9q12
Pathway	Bladder cancer, organism-specific biosystem; Cellular response to hypoxia, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem

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