

VEGF165, Rat (CHO-expressed)

Cat. No.: Z03006-10

Size: 10.0 ug

Synonyms: Vascular Endothelial Growth Factor, VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen

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.

Amino Acid Sequence:

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00001 APTTEGEQKA HEVVKFMDVY QRSYCRPIET LVDIFQEYPD  
00041 EIEYIFKPSK VPLMRCAGCC NDEALECVPT SESNVTMQIM  
00081 RIKPHQSQHI GEMSFQHSR CECRPKCDRT KPENHCEPCS  
00121 ERRKHLFVQD PQTCKCSCKN TDSRCKARQL ELNERTCRCD  
00161 KPRR
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Source: CHO

Species: Rat

Biological Activity: ED₅₀ < 4 ng/ml, measured in a cell proliferation assay using HUVEC cells, corresponding to a specific activity of >2.5 x 10⁵ units/mg

Molecular Weight: 35-48 kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant Rat Vascular Endothelial Growth Factor 165 (VEGF165) remains stable up to 6 months at lower than -70°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.