

VEGF165, Human(HEK 293-expressed)

Cat. No.: Z03073-1

Size: 1.0 mg

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

Description:

Vascular Endothelial Growth Factor 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, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the mouse homolog of KDR is the flk-1 gene product) and the flt4 gene product.

Amino Acid Sequence:

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00001 APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP
00041 DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI
00081 MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC
00121 SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC
00161 DKPRR
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Source: HEK 293

Species: Human

Biological Activity: ED₅₀ < 5 ng/ml, measured in a cell proliferation assay using HUVEC cells.

Molecular Weight: 20 26 kDa, observed by 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.

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

Storage: Lyophilized recombinant Human Vascular Endothelial Growth Factor 165 (VEGF-165) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Vascular Endothelial Growth Factor 165 (VEGF-165) should be stable up to 1 week at 4°C or up to 2 months at -20°C.