

## Overview

<b>Synonyms</b>	Vascular Endothelial Growth Factor, VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen
<b>Description</b>	<b>Vascular Endothelial Growth Factor (VEGF)</b> 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; <i>fms</i> -like tyrosine kinase ( <i>flt-1</i> ), KDR gene product (the murine homolog of KDR is the <i>flk-1</i> gene product) and the <i>flt4</i> gene product.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 4 ng/ml, measured in a cell proliferation assay using HUVEC cells, corresponding to a specific activity of >2.5 x 10 <sup>5</sup> units/mg
<b>Sequence</b>	<pre> APTTEGEQKA HEVVKFMDVY QRSYCRPIET LVDIFQEYPD EIEYIFKPSC VPLMRCAGCC NDEALECVPT SESNVTMQIM RIKPHQSQHI GEMSFLQHSR CECRPKKDRT KPENHCEPCS ERRKHLFVQD PQTCKCSCKN TDSRCKARQL ELNERTCRCD KPRR </pre>

## Properties

<b>Measured Molecular Weight</b>	35-48 kDa, observed by non-reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Rat Vascular Endothelial Growth Factor 165 (VEGF165)</b> 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.
<b>Note</b>	For research use only

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