

## 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</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, 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.
<b>Accession No</b>	NP_001165097
<b>Species</b>	Human
<b>Source</b>	HEK 293
<b>Biological Activity</b>	ED <sub>50</sub> < 5 ng/ml, measured in a cell proliferation assay using HUVEC cells.
<b>Sequence</b>	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVF TEESNITMQI MRIKPHQGGH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

## Properties

<b>Measured Molecular Weight</b>	20~26 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<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>Human Vascular Endothelial Growth Factor 165 (VEGF-165)</b> 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.
<b>Note</b>	For research use only

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