

## Recombinant Human VEGF165 protein(His Tag)

**Catalog Number:** PKSH034126

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

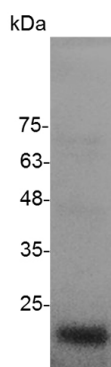
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human VEGF165 protein Ala 27-Arg 191, with an C-terminal His
<b>Calculated MW</b>	20.1 kDa
<b>Observed MW</b>	21 kDa
<b>Accession</b>	NP_001165097
<b>Bio-activity</b>	Measure by its ability to induce HUVEC cells proliferation. The ED <sub>50</sub> for this effect is < 5 ng/mL. The specific activity of recombinant human VEGF165 is approximately > 1.4 x 10 <sup>6</sup> IU/mg.

### Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS,pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



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### Background

Vascular endothelial growth factor (VEGF); also known as vascular permeability factor (VPF) and VEGF-A; is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects; including mediating increased vascular permeability; inducing angiogenesis; vasculogenesis and endothelial cell growth; promoting cell migration; inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability; thus it was originally referred to as vascular permeability factor.

### For Research Use Only

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