

# Human VEGF165 Protein

Cat. No. VEG-HM465

## Description

<b>Source</b>	Recombinant Human VEGF165 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala27-Arg191.
<b>Accession</b>	P15692-4
<b>Molecular Weight</b>	The protein has a predicted MW of 22.2 kDa. Due to glycosylation, the protein migrates to 28-35 kDa under reduced (R) condition, 45-60 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

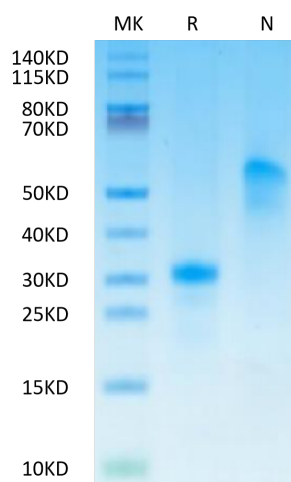
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Vascular endothelial growth factor (VEGF or VEGF-A), also known as vascular permeability factor (VPF), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. VEGF165 appears to be the most abundant and potent isoform, followed by VEGF121 and VEGF189.

## Assay Data

### Tris-Bis PAGE

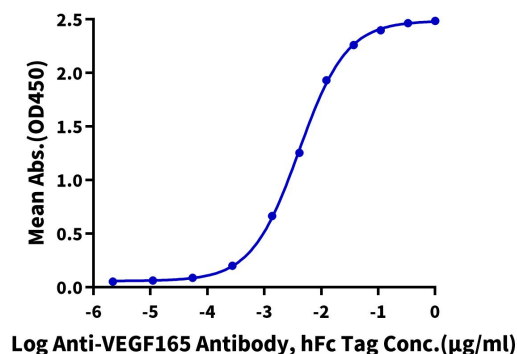


Human VEGF165 on Tris-Bis PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.

### ELISA Data

#### Human VEGF165, His Tag ELISA

0.05 $\mu\text{g}$  Human VEGF165, His Tag Per Well



Immobilized Human VEGF165 at 0.5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Anti-VEGF165 Antibody, hFc Tag with the EC50 of 4.1 $\text{ng}/\text{ml}$  determined by ELISA.