

# Human VEGF121 Protein

Cat. No. VEG-HM421

## Description

<b>Source</b>	Recombinant Human VEGF121 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala27-Arg147.
<b>Accession</b>	P15692-9
<b>Molecular Weight</b>	The protein has a predicted MW of 17 kDa. Due to glycosylation, the protein migrates to 18 kDa and 22-25 kDa under reduced (R) condition, 30 kDa and 32-40 kDa under Non reducing (N) condition based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

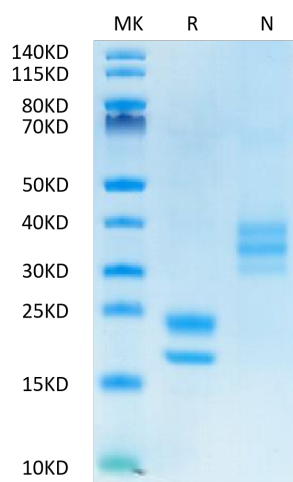
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS,250mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the 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 months 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

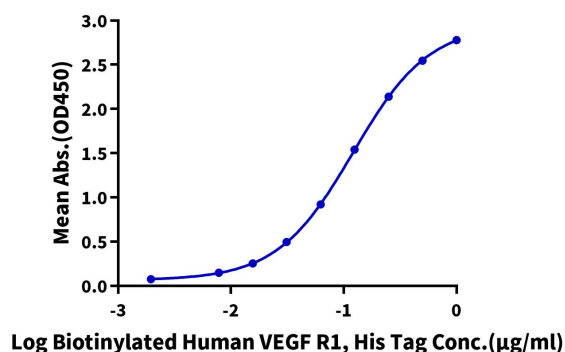
### Bis-Tris PAGE



Human VEGF121 on Bis-Tris PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.

### ELISA Data

**Human VEGF121, His Tag ELISA**  
0.2µg Human VEGF121, His Tag Per Well



Immobilized Human VEGF121, His Tag at 2µg/ml (100ul/Well). Dose response curve for Biotinylated Human VEGFR1, His Tag with the EC50 of 0.12µg/ml determined by ELISA.