

# Human VEGF / VEGFA / VEGF165 recombinant protein



Catalog Number: 503679

## General Information

### Gene Name Synonym

Vascular permeability factor

### Protein Construction

A DNA sequence encoding the human VEGF 165 isoform (P15692-4) (Met1-Arg191) was expressed. Human and Cynomolgus VEGF165 sequences are identical.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED<sub>50</sub> for this effect is typically 3-12 ng/ml.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ala 27

### Molecular Mass

The recombinant human VEGF consists of 165 amino acids after removal of the signal peptide and predicts a molecular mass of 19.2 kDa. Due to different glycosylation, the apparent molecular mass of rhVEGF165 is approximately 20 and 22 kDa in SDS-PAGE under reducing conditions, corresponding to the monomer.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

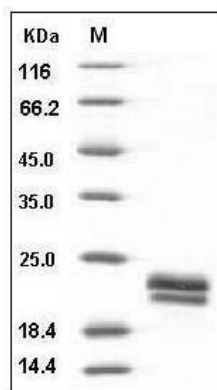
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human / Cynomolgus VEGF / VEGFA / VEGF165  
Protein SDS-PAGE