

# Human VEGFR2/Flk-1/CD309/KDR (His Tag) recombinant protein



Catalog Number: 504047

## General Information

### Protein Construction

A DNA sequence encoding the extracellular domain of human VEGFR2 (NP\_002244.1) (Met 1-Glu 764) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Using the Octet RED System, the affinity constant (Kd) of human VEGFR2-his bound to biotinylated human VEGF165 was 5.9nM.
2. Measured by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC). The ED<sub>50</sub> for this effect is typically 1-4 µg/mL in the presence of 10 ng/mL recombinant human VEGF165.

### Purity

> 97 % 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 20

### Molecular Mass

The secreted recombinant human VEGFR2 consists of 756 amino acids and predicts a molecular mass of 84.6 kDa. The apparent molecular mass of rhVEGFR2 is approximately 120-130 in SDS-PAGE under reducing conditions.

### 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

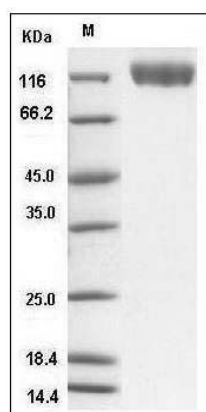
### Storage

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 VEGFR2 / Flk-1 / CD309 / KDR Protein (His Tag) SDS-PAGE