

# Human VEGFR3/FLT-4 (Fc Tag) recombinant protein



Catalog Number: 502129

## General Information

### Gene Name Synonym

Fms-like tyrosine kinase 4; Tyrosine-protein kinase receptor FLT4

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Ile 776) of human VEGFR3 (NP\_002011.2) was expressed with the fused Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA.

1. Immobilized recombinant human VEGFR3 at 5 µg/ml (100 µl/well) can bind recombinant human VEGF-D at a linear range of 62.5-2000 ng/ml.
2. Immobilized recombinant human VEGF-C at 10 µg/ml (100 µl/well) can bind recombinant human VEGFR3 at a linear range of 0.64-80 ng/ml.
3. Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4 nM.

### 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

Tyr 25 & Ser 473

### Molecular Mass

The recombinant human VEGFR3/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 990 amino acids and predicts a molecular mass of 111 kDa. As a result of glycosylation and proteolytic cleavage, rhVEGFR3/Fc migrates as three bands (160, 85, 75 kDa) corresponding to the full length and the cleaved two polypeptides respectively 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.

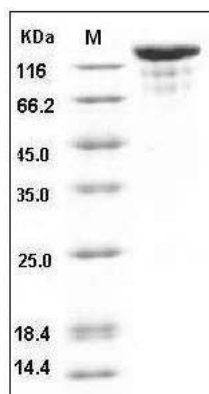
### SDS-PAGE

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