

# Recombinant Human FLT-1/VEGFR-1 Protein

Catalog No.: RP01137 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2321	P17948

### Tags

C-His

### Synonyms

FLT;FLT-1;VEGFR-1;VEGFR1;FLT1

## Product Information

Source	Purification
HEK293 cells	> 97 % by SDS-PAGE.

### Endotoxin

&lt; 1.0 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.  
Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Background

This protein is a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.

## Basic Information

### Description

Recombinant Human FLT-1/VEGFR-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asn756) of human FLT1 (Accession #P17948-1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

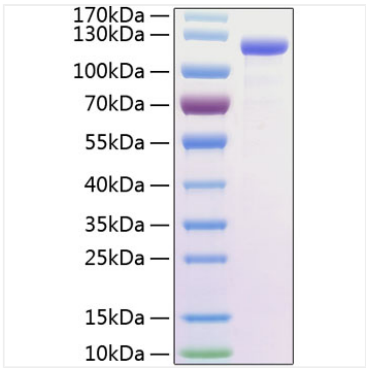
Avoid repeated freeze/thaw cycles.

## Contact

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# Validation Data

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Recombinant Human FLT-1/VEGFR-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 110-120 kDa.