Biotinylated Recombinant Human VEGFR-1/FLT-1 Protein

Catalog No.: RP02100B

Sequence Information

Species
Human

Gene ID
2321

Swiss Prot
P17948-1

Tags
C-His&Avi

Synonyms
FLT,FLT-1,VEGFR-1,VEGFR1,FLT1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE.

Calculated MW
85.1 kDa

Observed MW
100-120 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

VEGFR1 (vascular endothelial growth factor receptor 1), also called Flt-1 (Fms-like tyrosine kinase), is a 180 kDa type I transmembrane glycoprotein in the class III subfamily of receptor tyrosine kinases (RTKs).yrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells.

Basic Information

Description
Biotinylated Recombinant Human VEGFR-1/FLT-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser27-His687) of Human VEGFR-1/FLT-1 (Accession #) fused with a His tag and Avi tag at the C-terminal.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

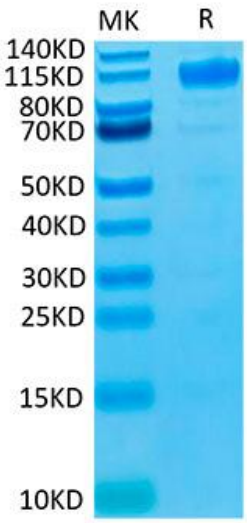
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

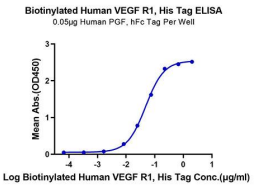
400-999-6126
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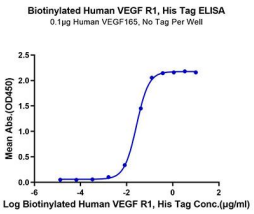
Validation Data



Biotinylated Recombinant Human VEGFR-1/FLT-1 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human PGF, hFc Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC_{50} of 48ng/ml determined by ELISA.



Immobilized Human VEGF165 at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC_{50} of 26.9ng/ml determined by ELISA.