Recombinant Human VEGFR-1/FLT-1 Protein

Catalog No.: RP01188

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Sequence Information

Species
Human

Gene ID
2321

Swiss Prot
P17948

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥95 % as determined by HPLC.

Calculated MW
85.69 kDa

Observed MW
120-130 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 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 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

Basic Information

Description
Recombinant Human VEGFR-1/FLT-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asn756) of human VEGFR1/Flt-1 (Accession #NP_002010.1) fused with a 8×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human VEGFR1 at 500 ng/mL (100 μL/well) can bind Recombinant Mouse PLGF with a linear range of 12-49 ng/mL.
2.Measured by its ability to inhibit the VEGF-dependent proliferation of HUVEC human umbilical vein endothelial cells. Conn, G. et al. (1990) Proc. Natl. Acad. Sci. USA 87:1323. The ED_{50} for this effect is 0.039-0.154 ng/mL.

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℃

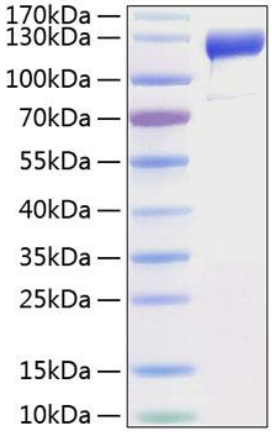
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

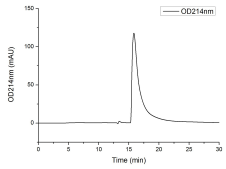
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Please visit http://abclonal.com for a complete listing of recommended products.

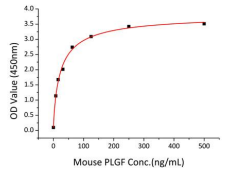
Validation Data



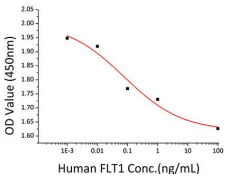
Recombinant Human VEGFR-1/FLT-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of human VEGFR1/Flt-1 Protein (Cat.RP01188) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human VEGFR1 at 500ng/mL (100 μL/well) can bind Recombinant Mouse PLGF with a linear range of 12-49 ng/mL.



Recombinant Human FLT1 inhibit the VEGF-dependent proliferation of HUVEC human umbilical vein endothelial cells. The ED_{50} for this effect is 0.039-0.154 ng/mL.