Recombinant Human VEGFR-2/KDR/CD309 Protein

Catalog No.: RP00084

Sequence Information

Species
Human

Gene ID
3791

Swiss Prot
P35968

Tags
C-His

Synonyms
CD309,FLK1,VEGFR,VEGFR2,VEGF Receptor 2,KDR

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
84.11 kDa

Observed MW
120-140 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

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc. Mutations of this gene are implicated in infantile capillary hemangiomas.

Basic Information

Description
Recombinant Human VEGFR-2/KDR/CD309 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala20-Glu764) of human VEGF R2/KDR (Accession #NP_002244.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its ability to inhibit the VEGF-dependent proliferation of human umbilical vein endothelial cells(HUVEC). The ED_{50} for this effect is typically 10-50 μg/mL in the presence of 10 ng/mL recombinant human VEGF165.
2.Measured by its binding ability in a functional ELISA. Immobilized PE anti-human CD309 (VEGFR2) Antibody at 1 μg/mL (25 μL/well) can bind Human VEGFR2 with a linear range of 0.46-68.8 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℃

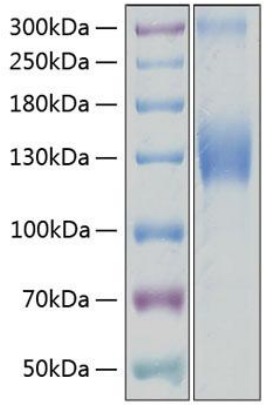
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

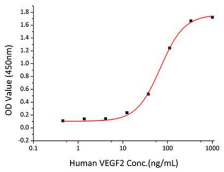
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Validation Data



Recombinant Human VEGFR-2/KDR/CD309 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized PE anti-human CD309 (VEGFR2) Antibody at 1μg/mL (25 μL/well) can bind Human VEGFR2 with a linear range of 0.46-68.8 ng/mL.