Recombinant Human VEGF-A/VEGF165 Protein

Catalog No.: RP01150

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Sequence Information

Species	Gene ID
Human	7422

Swiss Prot	Tags
P15692-4	N-His

Synonyms

VEGFA, MVCD1, VEGF, VPF, vascular endothelial growth factor A,MVCD1,VEGF,VPF,L VEGFA, VEGF A

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
20.01 kDa	24-26 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 VEGF-A/VEGF165 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala27-Arg191) of human VEGF165 (Accession #NP_001165097.1) fused with a 6×His tag at the N-terminus.

Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human VEGF165 at 1 μg/mL (100 μL/well) can bind Recombinant Human VEGFR2 with a linear range of 8-20 ng/mL.
2.Measured by its binding ability in a functional ELISA. Immobilized Human VEGF165 at 2 μg/mL (100 μL/well) can bind Human KDR with a linear range of 0.2-11.6 ng/mL.
3.Recombinant Human VEGF165 stimulates cell proliferation of the human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 0.19-0.78 ng/mL, corresponding to a specific activity of 1.28 × 106~5.26× 106 units/mg.

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

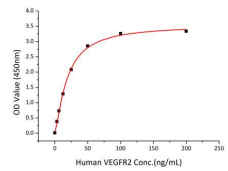
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

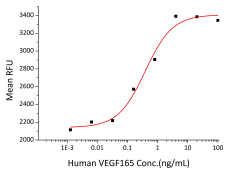
400-999-6126
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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

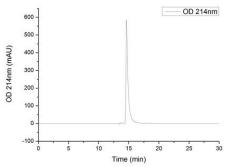
Validation Data



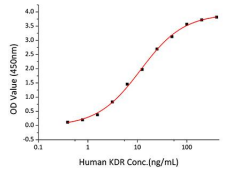
Immobilized Recombinant Human VEGF165 at 1 μg/mL (100 μL/well) can bind Recombinant Human VEGFR2 with a linear range of 8-20 ng/mL.



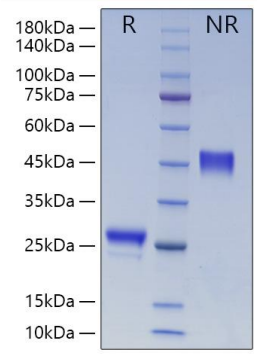
Recombinant Human VEGF165 stimulates cell proliferation of the human umbilical vein endothelial cells (HUVEC). The ED_{50} for this effect is typically 0.19-0.78 ng/mL, corresponding to a specific activity of 1.28 × 10^6~5.26× 10^6 units/mg.



The purity of human VEGF165 Protein (Cat.RP01150) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human VEGF165 at 2 μg/mL (100 μL/well) can bind Human KDR with a linear range of 0.2-11.6 ng/mL.



Recombinant Human VEGF-A/VEGF165 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.