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Recombinant Human VEGF-A/VEGF165 Protein

Catalog No.: RP01150 Recombinant 1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	7422	P15692-4

Tags
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.

Contact

400-999-6126

cn.market@abclonal.com.cn

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.

Bio-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.

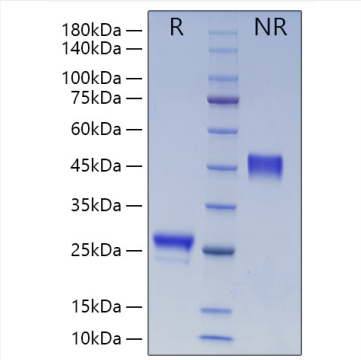
Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

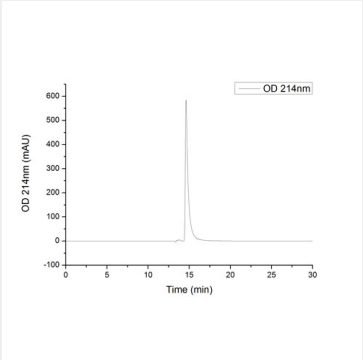
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

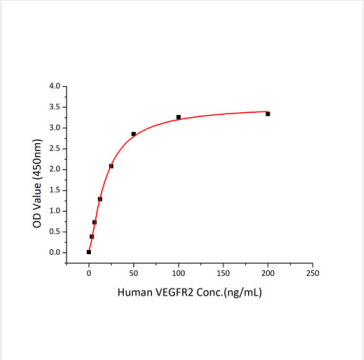
Validation Data



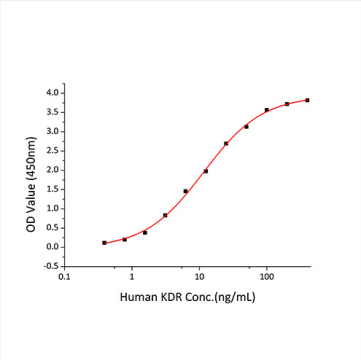
Recombinant Human VEGF-A/VEGF165 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



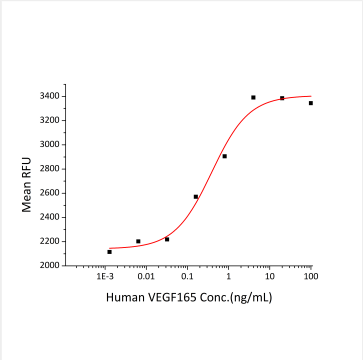
The purity of human VEGF165 Protein (Cat.RP01150) was greater than 95% as determined by SEC-HPLC.



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.



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 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.