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Biotinylated Recombinant Human VEGF-A/VEGF165 Protein

Catalog No.: RP02097B Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	7422	P15692-4

Tags
C-His&Avi

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 Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
22.2 kDa	28-35 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.

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.

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Background

Vascular endothelial growth factor (VEGF or VEGF-A), also known as vascular permeability factor (VPF), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. VEGF165 appears to be the most abundant and potent isoform, followed by VEGF121 and VEGF189.

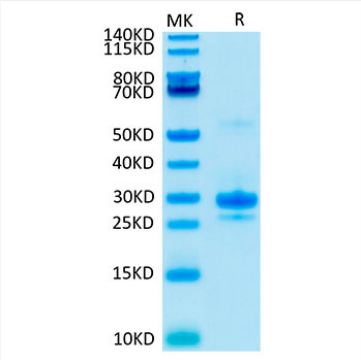
Basic Information

Description
Biotinylated Recombinant Human VEGF-A/VEGF165 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ala27-Arg191) of Human VEGF165 fused with a His tag and Avi tag at the C-terminal. .

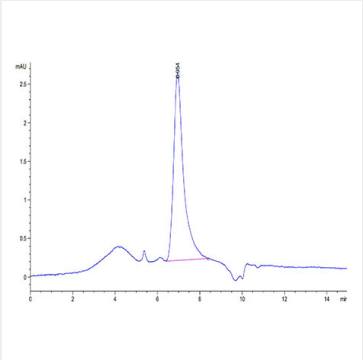
Bio-Activity

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.

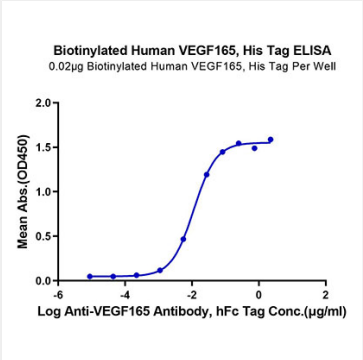
Validation Data



Biotinylated Recombinant Human VEGF-A/VEGF165 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human VEGF165 is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human VEGF165 at 0.2μg/ml (100μl/Well) on the plate. Dose response curve for Anti-VEGF165 Antibody, hFc Tag with the EC_{50} of 11.3ng/ml determined by ELISA.