

Biotinylated Human VEGF165 Protein, Ultra Low Endotoxin

Cat. No. VEG-HM465B-UL

Description

Source	Recombinant Biotinylated Human VEGF165 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala27-Arg191.
Accession	P15692-4
Molecular Weight	The protein has a predicted MW of 22.2 kDa. Due to glycosylation, the protein migrates to 28-35 kDa under reduced (R) condition, 45-60 kDa under Non reduced (N) condition based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

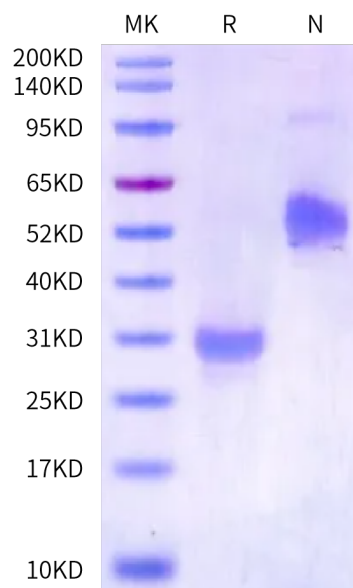
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

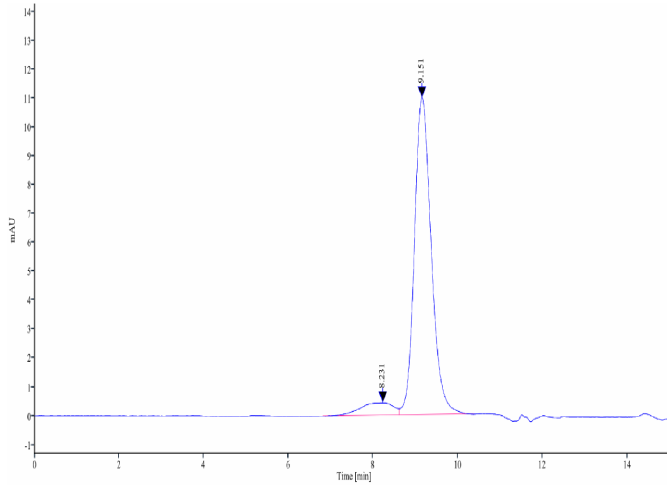
Bis-Tris PAGE



Biotinylated VEGF165 on Bis-Tris PAGE under reduced (R) condition and Non reduced (N) condition. The purity is greater than 90%.

SEC-HPLC

Assay Data

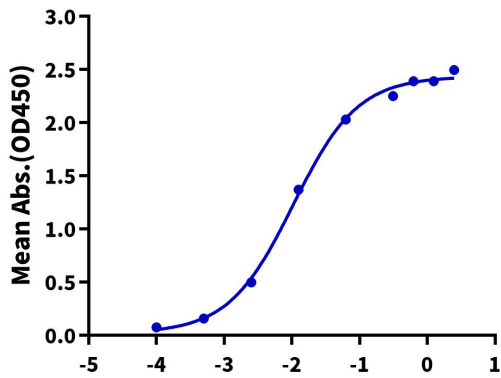


The purity of Biotinylated Human VEGF165 is greater than 90% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human VEGF165, His Tag ELISA

0.1µg Human VEGF R1, His Tag Per Well

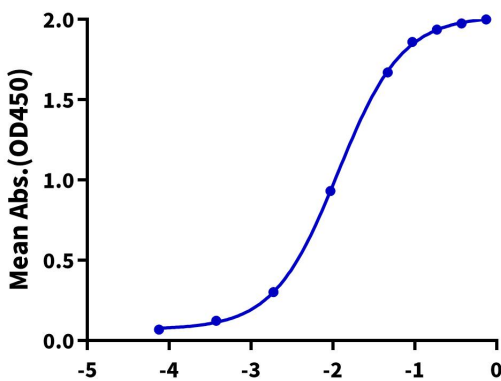


Log Biotinylated Human VEGF165, His Tag Conc.(µg/ml)

Immobilized Human VEGF R1, His Tag at 1µg/ml(100µl/well) on the plate. Dose response curve for Biotinylated Human VEGF165, His Tag with the EC50 of 10.5ng/ml determined by ELISA.

Biotinylated Human VEGF165, His Tag ELISA

0.1µg Anti-VEGF165 Antibody, hFc Tag Per Well



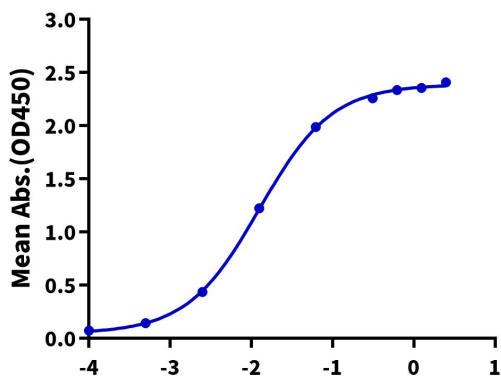
Log Biotinylated Human VEGF165, His Tag Conc.(µg/ml)

Immobilized Anti-VEGF165 Antibody at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human VEGF165, His Tag with the EC50 of 11.6ng/ml determined by ELISA.

Assay Data

Biotinylated Human VEGF165, His Tag ELISA

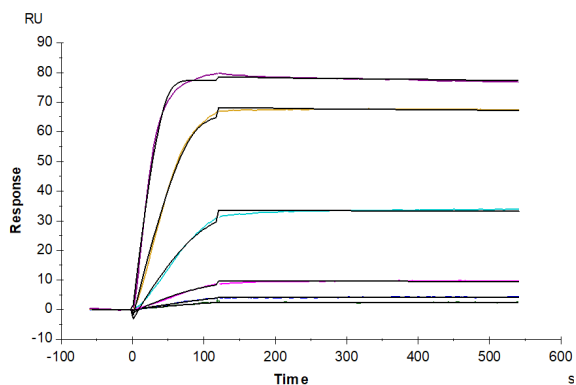
0.2µg Human VEGF R2, hFc Tag Per Well



Immobilized Human VEGF R2, hFc Tag at 2µg/ml(100µl/well) on the plate. Dose response curve for Biotinylated Human VEGF165, His Tag with the EC50 of 12.6ng/ml determined by ELISA.

Log Biotinylated Human VEGF165, His Tag Conc.(µg/ml)

SPR Data



Biotinylated Human VEGF165, His Tag captured on CM5 Chip via streptavidin can bind Human VEGF R1, His Tag with an affinity constant of 1.36 pM as determined in SPR assay (Biacore T200).