

Human VEGF165 Protein

Cat. No. VEG-HM665



Description

Source	Recombinant Human VEGF165 Protein is expressed from HEK293 with Llama IgG2b Fc tag at the C-terminus. It contains Ala27-Arg191.
Accession	P15692-4
Molecular Weight	The protein has a predicted MW of 46.47 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

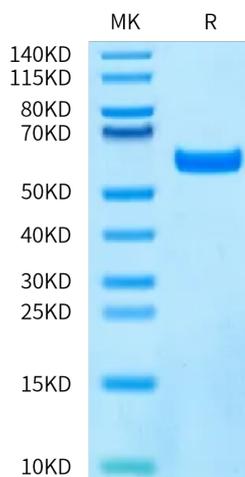
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

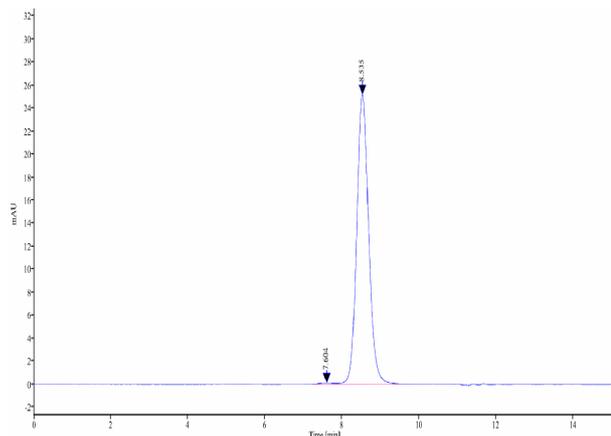
Assay Data

Bis-Tris PAGE



Human VEGF165 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



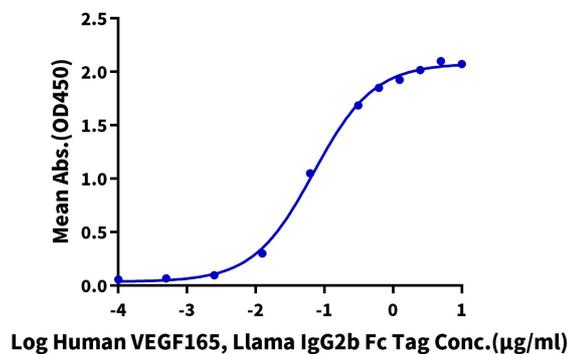
The purity of Human VEGF165 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human VEGF165, Llama IgG2b Fc Tag ELISA

0.2µg Human VEGF R1, His Tag Per Well

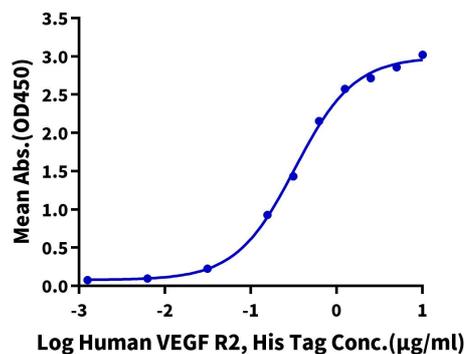


Immobilized Human VEGF R1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF165, Llama IgG2b Fc Tag with the EC50 of 69.9ng/ml determined by ELISA.

ELISA Data

Human VEGF165, Llama IgG2b Fc Tag ELISA

0.2µg Human VEGF165, Llama IgG2b Fc Tag Per Well



Immobilized Human VEGF165, Llama IgG2b Fc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF R2, His Tag with the EC50 of 0.33µg/ml determined by ELISA.