

Human VEGF165 Protein



Cat. No. VEG-HM165

Description	
Source	Recombinant Human VEGF165 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala27-Arg191.
Accession	P15692-4
Molecular Weight	The protein has a predicted MW of 20.77 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

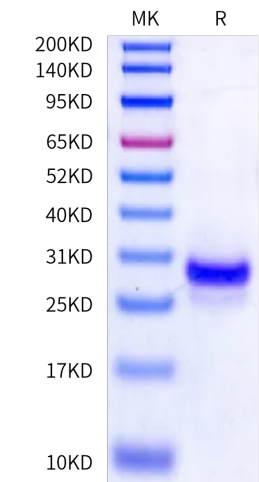
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.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

Human papillomavirus (HPV) infection is an established risk factor for cervical carcinogenesis. VEGF165 was significantly higher, whereas VEGFC and VEGFD were significantly lower in malignant cervical carcinoma tissues as compared to normal cervix tissues. Expression levels of VEGF121 and VEGFC were significantly associated with type of tumor growth while VEGF165 was significantly associated with lymph node metastasis.

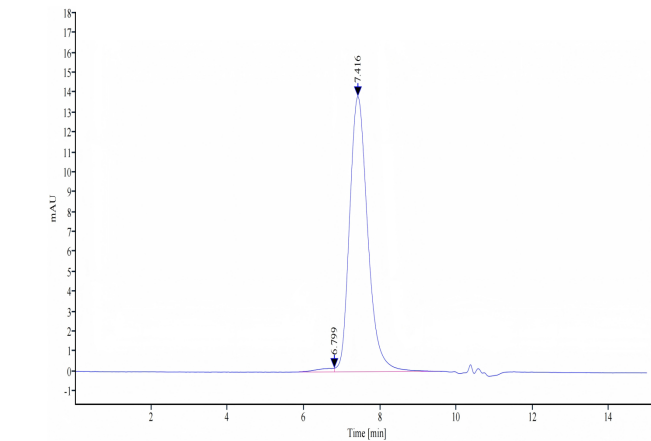
Assay Data

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.

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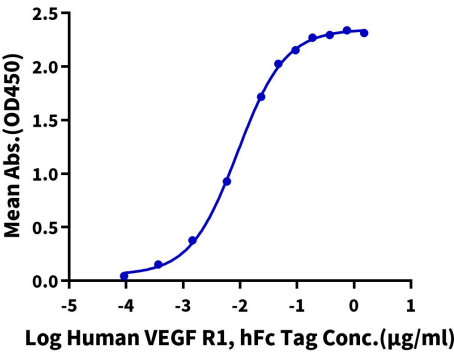


Assay Data

ELISA Data

Human VEGF165, His Tag ELISA

0.1µg Human VEGF165, His Tag Per Well

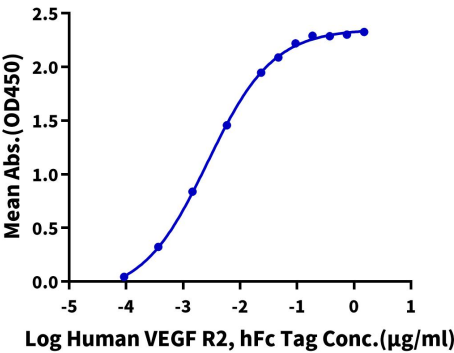


Immobilized Human VEGF165, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF R1, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA.

ELISA Data

Human VEGF165, His Tag ELISA

0.1µg Human VEGF165, His Tag Per Well

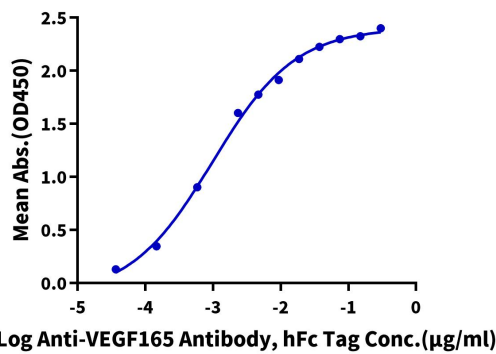


Immobilized Human VEGF165, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF R2, hFc Tag (Cat. VGF-HM2R2) with the EC50 of 2.7ng/ml determined by ELISA.

ELISA Data

Human VEGF165, His Tag ELISA

0.05µg Human VEGF165, His Tag Per Well



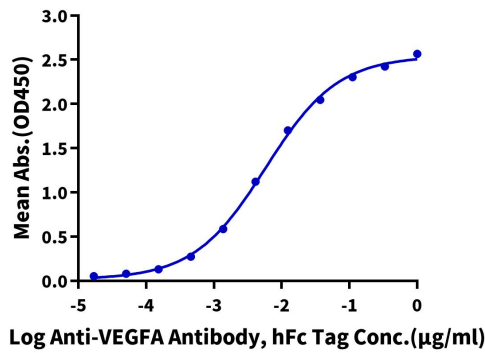
Immobilized Human VEGF165, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-VEGF165 Antibody, hFc Tag with the EC50 of 1.0ng/ml determined by ELISA.

ELISA Data

Assay Data

Human VEGF165, His Tag ELISA

0.05µg Human VEGF165, His Tag Per Well



Immobilized Human VEGF165, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-VEGFA Antibody, hFc Tag with the EC50 of 5.8ng/ml determined by ELISA.