

Biotinylated Human VEGF R2/KDR Protein

Cat. No. VGF-HM4R2B



Description

Source	Recombinant Biotinylated Human VEGF R2/KDR Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Ala20-Glu764.
Accession	P35968-1
Molecular Weight	The protein has a predicted MW of 86.2 kDa. Due to glycosylation, the protein migrates to 115-140 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

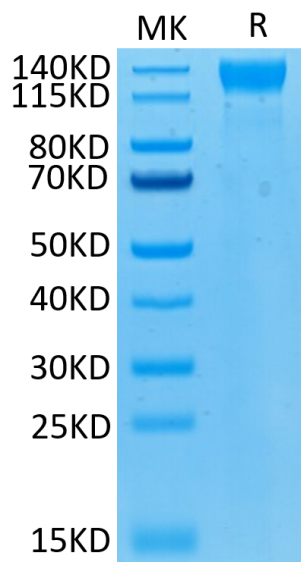
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. The tyrosine kinase receptor vascular endothelial growth factor receptor 2 (VEGFR2) is a key regulator of angiogenesis.

Assay Data

Bis-Tris PAGE



Biotinylated Human VEGF R2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

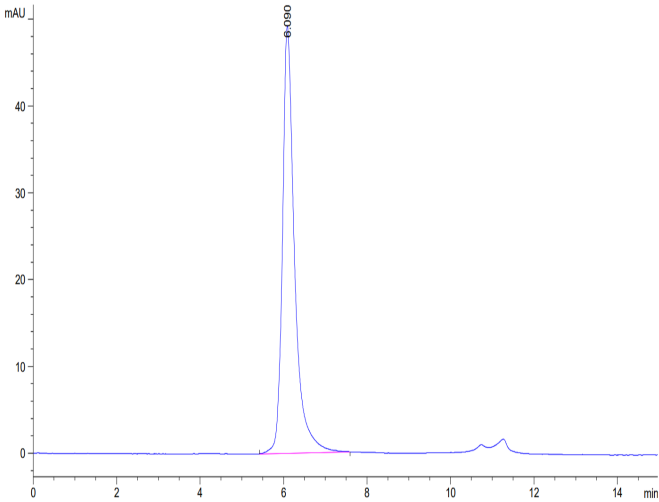
SEC-HPLC

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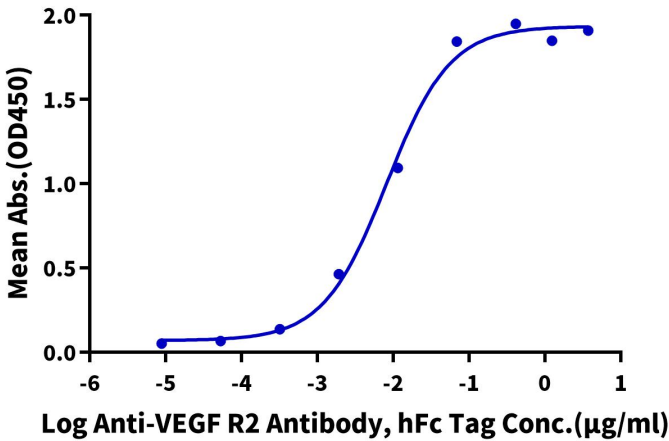
Assay Data



The purity of Biotinylated Human VEGF R2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

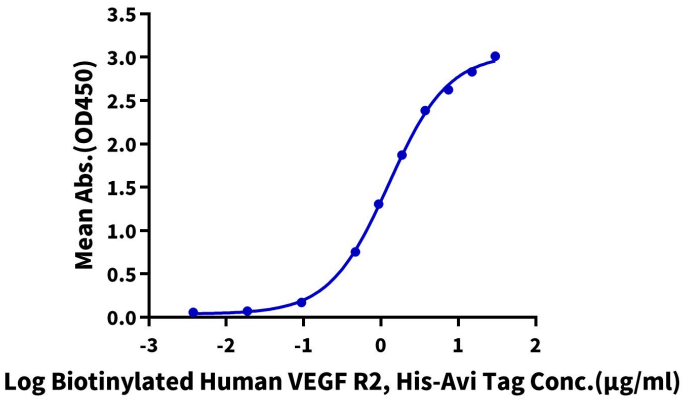
Biotinylated Human VEGF R2, His Tag ELISA
0.05µg Biotinylated Human VEGF R2, His Tag Per Well



Immobilized Biotinylated Human VEGF R2, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-VEGF R2 Antibody, hFc Tag with the EC50 of 8.2ng/ml determined by ELISA (QC Test).

ELISA Data

Biotinylated Human VEGF R2, His-Avi Tag ELISA
0.5µg Human VEGF165, No Tag Per Well



Immobilized Human VEGF165, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human VEGF R2, His-Avi Tag with the EC50 of 1.27µg/ml determined by ELISA.

Blocking Data

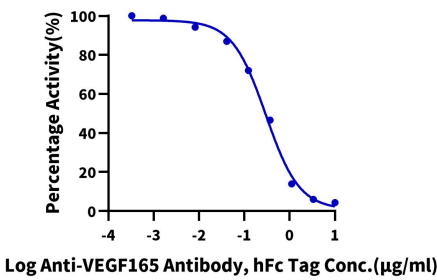
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Assay Data

Inhibition of Human VEGF165 and Biotinylated VEGF R2 Binding
0.1µg Human VEGF165, No Tag Per Well



Serial dilutions of Anti-VEGF165 Antibody were added into Human VEGF165, No Tag: Biotinylated Human VEGF R2, His Avi Tag binding reactions. The half maximal inhibitory concentration (IC50) is 0.30µg/ml.