

Human VEGF R2/KDR Protein

Cat. No. VGF-HM2R2

Description

Source	Recombinant Human VEGF R2/KDR Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ala20-Glu764.
Accession	P35968-1
Molecular Weight	The protein has a predicted MW of 109.21 kDa. Due to glycosylation, the protein migrates to 150-180 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

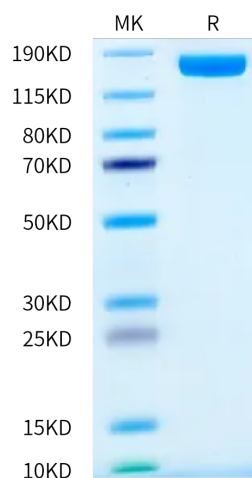
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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.

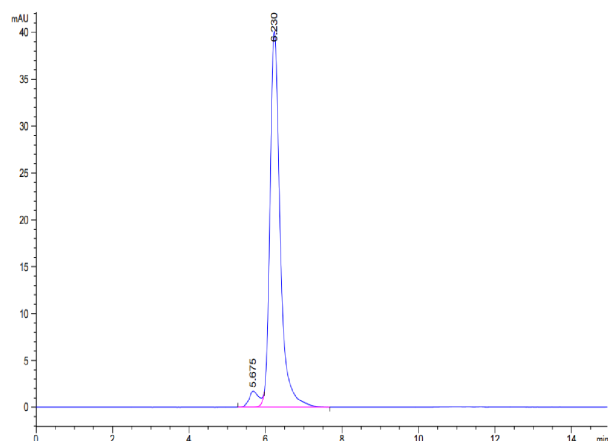
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



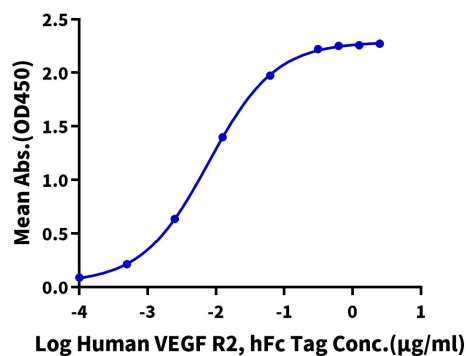
The purity of Human VEGF R2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human VEGF R2, hFc Tag ELISA

0.1µg Human VEGF165, His Tag Per Well

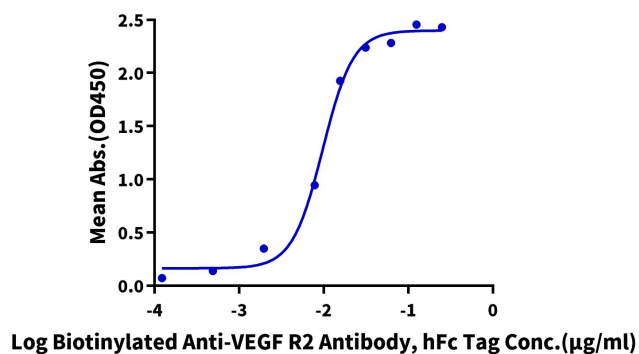


Immobilized Human VEGF165, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF R2, hFc Tag with the EC50 of 7.8ng/ml determined by ELISA (QC Test).

ELISA Data

Human VEGF R2, hFc Tag ELISA

0.05µg Human VEGF R2, hFc Tag Per Well



Immobilized Human VEGF R2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-VEGF R2 Antibody, hFc Tag with the EC50 of 9.7ng/ml determined by ELISA.