

Human VEGF R2/KDR Protein

Cat. No. VGF-HM4R2

Description

Source	Recombinant 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

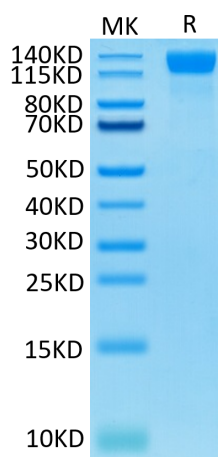
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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

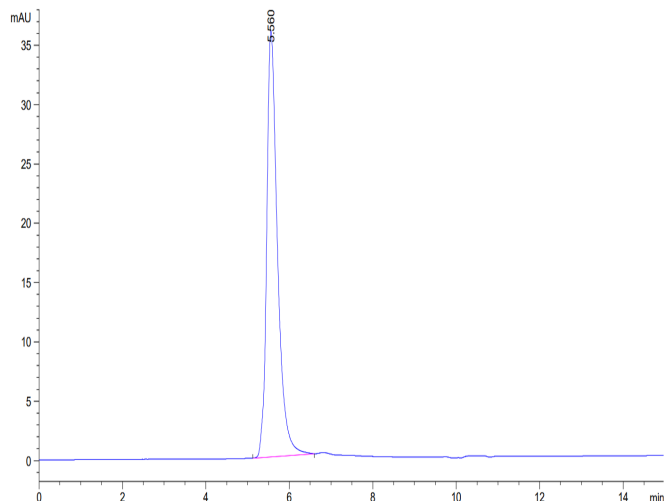
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

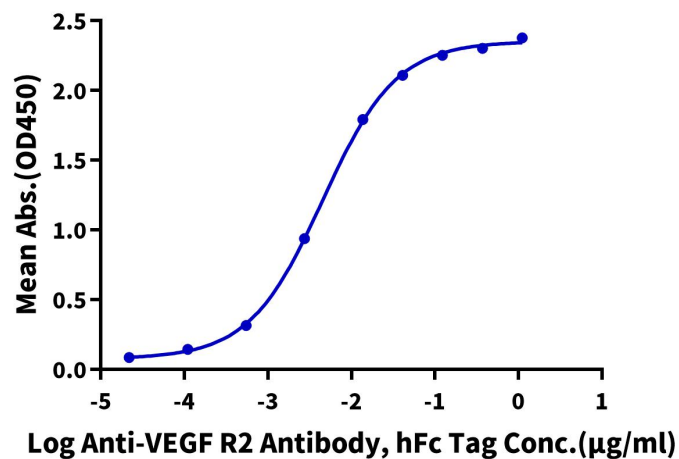


The purity of Human VEGF R2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human VEGF R2, His Tag ELISA

0.05µg Human VEGF R2, His Tag Per Well



Immobilized Human VEGF R2 at 0.5µg/ml (100µl/Well). Dose response curve for Anti-VEGFR2 Antibody, hFc Tag with the EC50 of 4.5ng/ml determined by ELISA.