

Human VEGF R2/KDR Protein, Ultra Low Endotoxin



Cat. No. VGF-HM1R2-UL

Description

Source	Recombinant Human VEGF R2/KDR Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala20-Glu764.
Accession	P35968-1
Molecular Weight	The protein has a predicted MW of 84.88 kDa. Due to glycosylation, the protein migrates to 120-160 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

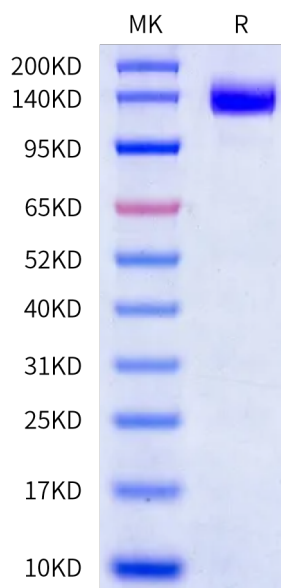
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

The vascular endothelial growth factor receptor-2 (VEGFR-2/KDR/flk-1) functions as the primary mediator of vascular endothelial growth factor activation in endothelial cells. Regulation of VEGFR-2 expression appears critical in mitogenesis, differentiation, and angiogenesis. Transcriptional regulation of the VEGFR-2 is complex and may involve multiple putative upstream regulatory elements including E boxes.

Assay Data

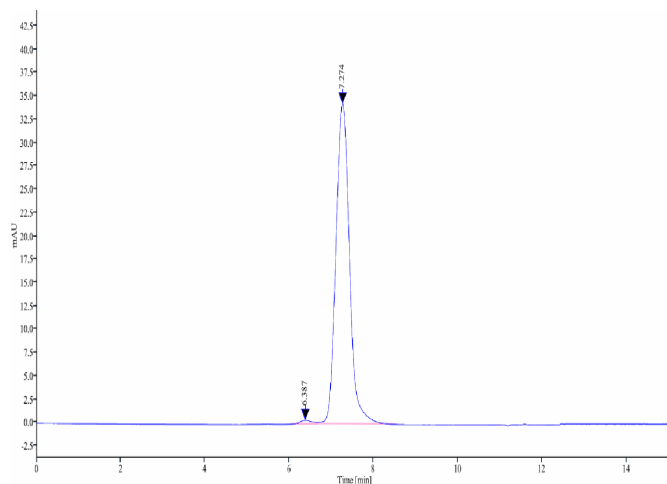
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

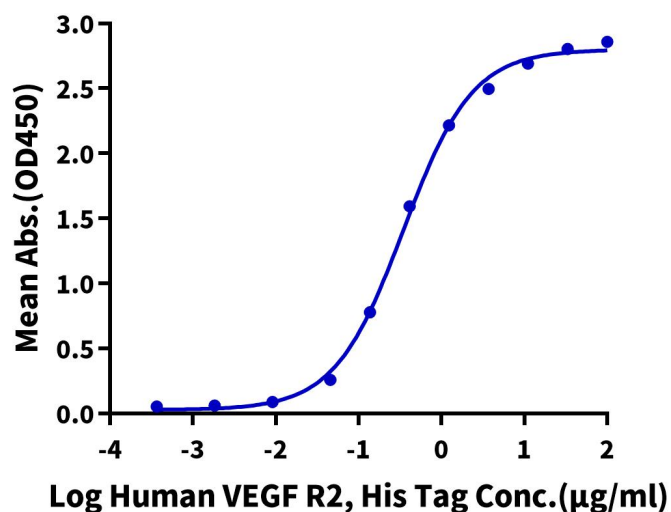


The purity of Human VEGF R2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human VEGF R2, His Tag ELISA

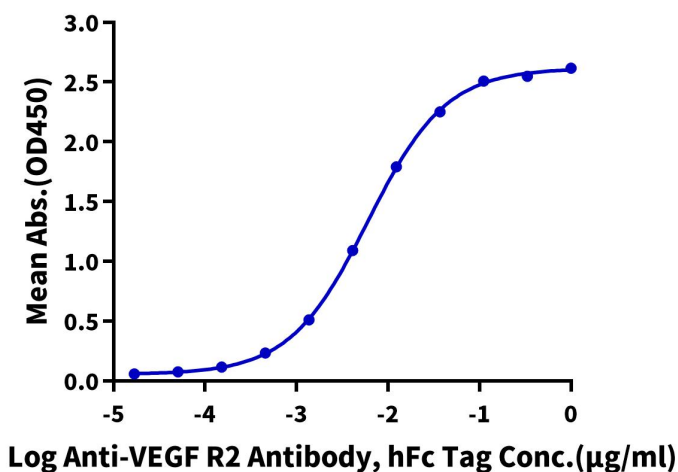
0.5µg Human VEGF165, No Tag Per Well



Immobilized Human VEGF165, No Tag (Cat. VEG-HM065) at 5µg/ml (100µl/well) on the plate. Dose response curve for Human VEGF R2, HisTag with the EC50 of 0.35µg/ml determined by ELISA.

Human VEGF R2, His Tag ELISA

0.1µg Human VEGF R2, His Tag Per Well



Immobilized Human VEGF R2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-VEGF R2 Antibody, hFc Tag with the EC50 of 6.0ng/ml determined by ELISA.