Human VEGF110 Protein

Cat. No. VEG-HM010

Description

Source	Recombinant Human VEGF110 Protein is expressed from HEK293 without tag.
	It contains Ala27-Arg136.
Accession	P15692-9
Molecular Weight	The protein has a predicted MW of 12.70 kDa. Due to glycosylation, the protein migrates to 13 kDa and 17-23 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

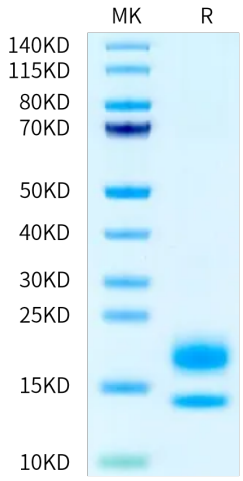
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Vascular endothelial growth factor-A (VEGF-A) is a critical angiogenic factor which is mainly secreted from podocytes and epithelial cells in kidney and plays an important role in renal pathophysiology. In recent years, functions of different isoforms of VEGF-A and the new secretion approach via extracellular vesicles (EVs) have been identified.

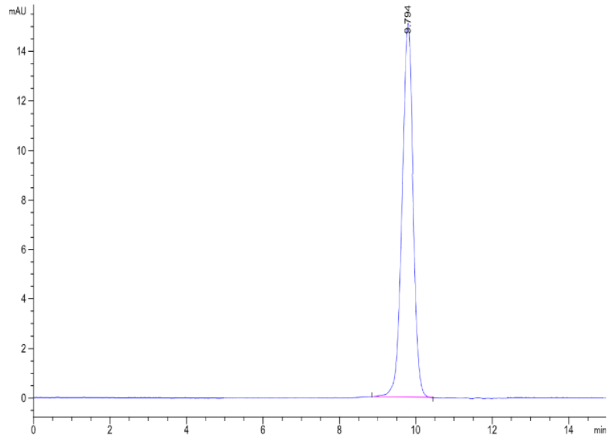
Assay Data

Bis-Tris PAGE



Human VEGF110 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human VEGF110 is greater than 95% as determined by SEC-HPLC.

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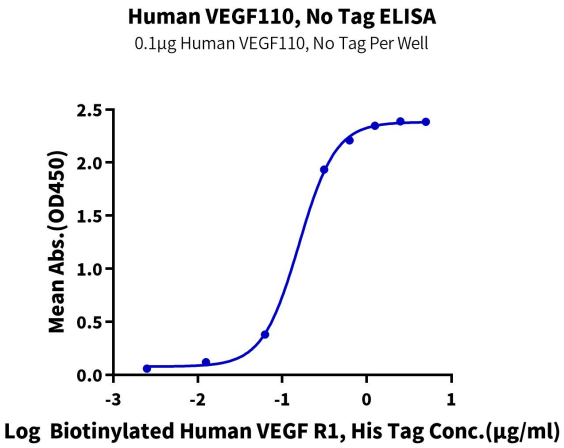
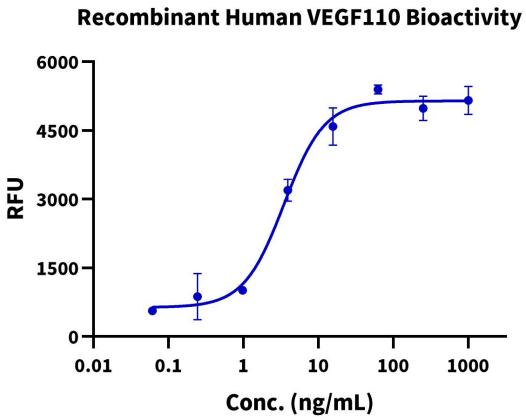
Assay Data

ELISA Data



Immobilized Human VEGF110, No Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC50 of 0.16μg/ml determined by ELISA (QC Test).

Cell Based Assay



Measured by a reporter gene assay using HEK293T-KDR-NFAT Cell line. The ED50 for this effect is < 8 ng/mL (QC Test).