Recombinant Human VEGF-A/VEGF165 Protein

RPCB0870

Description

This high-purity Recombinant Human VEGF-A/VEGF165 Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0870
Contents:	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	VEGFA, MVCD1, VEGF, VPF, vascular endothelial growth factor A, MVCD1, VEGF, VPF, L VEGFA, VEGF A
Species:	Human
Gene ID:	7422
Expression Host:	HEK293 cells
Tags:	N-His
Calculated MW:	20.01 kDa
Observed MW:	24-26 kDa
Purification:	≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by HPLC.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.
Bio- Activity:	1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human VEGF165 at 1 µg/mL (100 µL/well) can bind Recombinant Human VEGFR2 with a linear range of 8-20 ng/mL.

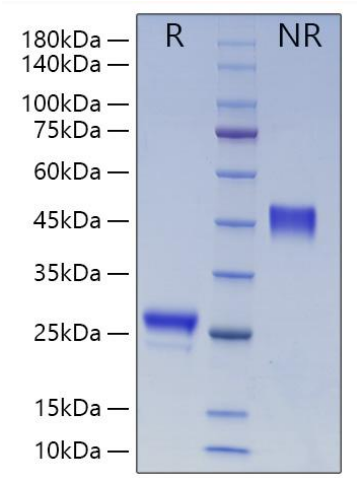
2. Measured by its binding ability in a functional ELISA. Immobilized Human VEGF165 at 2 µg/mL (100 µL/well) can bind Human KDR with a linear range of 0.2-11.6 ng/mL.
3. Recombinant Human VEGF165 stimulates cell proliferation of the human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 0.19-0.78 ng/mL, corresponding to a specific activity of 1.28 × 106~5.26× 106 units/mg.

Preparation & Storage

Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage:	Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week. Store Bradford Reagent at Room Temperature for 1 Year.
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Protein Quantification (Optional):	To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol.

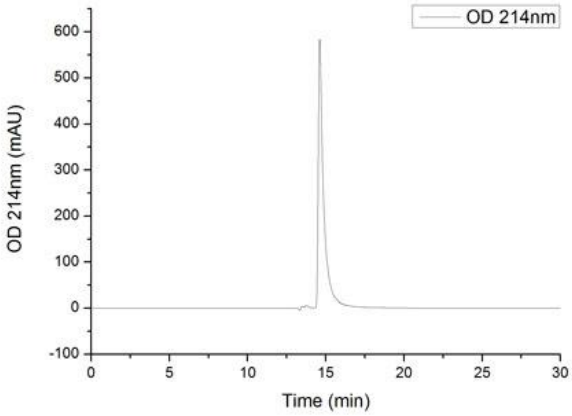
Validation Data

Image

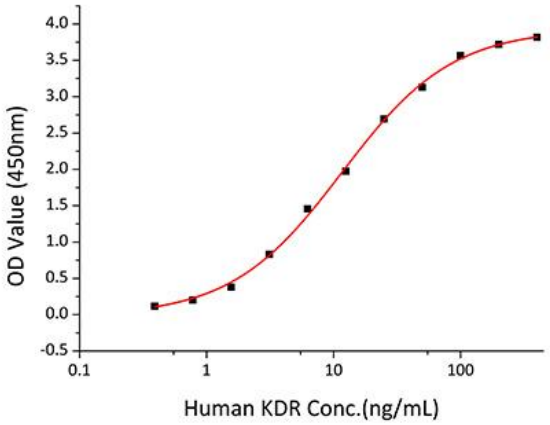


Description

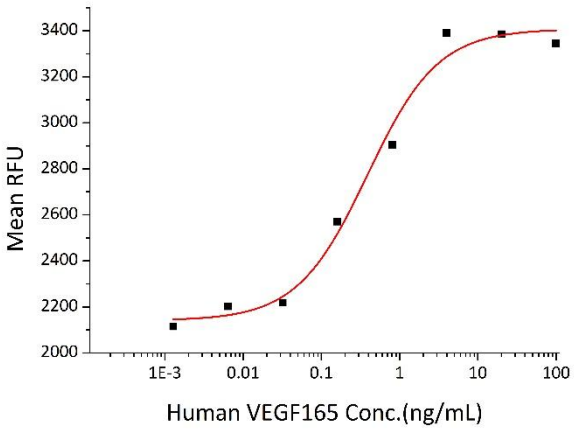
Recombinant Human VEGF-A/VEGF165 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



The purity of human VEGF165 Protein (RPCB0870) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human VEGF165 at 2 µg/mL (100 µL/well) can bind Human KDR with a linear range of 0.2-11.6 ng/mL.



Recombinant Human VEGF165 stimulates cell proliferation of the human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 0.19-0.78 ng/mL, corresponding to a specific activity of 1.28 × 106~5.26× 106 units/mg.