

Recombinant Human VEGF-A/VEGF121 Protein

RPCB0791

Description

This high-purity Recombinant Human VEGF-A/VEGF121 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:	RPCB0791
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:	14.91 kDa
Observed MW:	17-22 kDa
Purification:	≥ 95 % as determined by SDS-PAGE.
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 VEGF121 at 1 µg/mL (100 µL/well) can bind Recombinant Human VEGFR2 with a linear range of 4-10 ng/mL.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

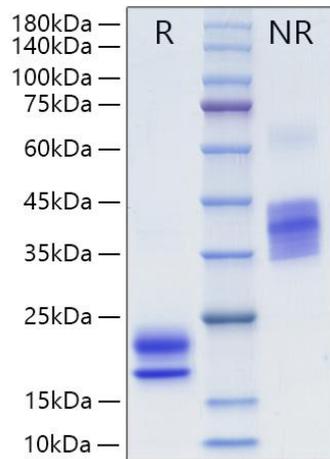
2. Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED 50 for this effect is 0.09-0.36 ng/mL.
3. Recombinant Human VEGFA(40 ng/mL) and bFGF(50 ng/mL, RPCB0791) induce mesoderm cells to differentiate into hematopoietic stem and progenitor cells. After 4 days induction, pebbly-like CD43+ hematopoietic stem and progenitor cells appeared in the hematogenic endothelium.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C 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 stabilizer (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.

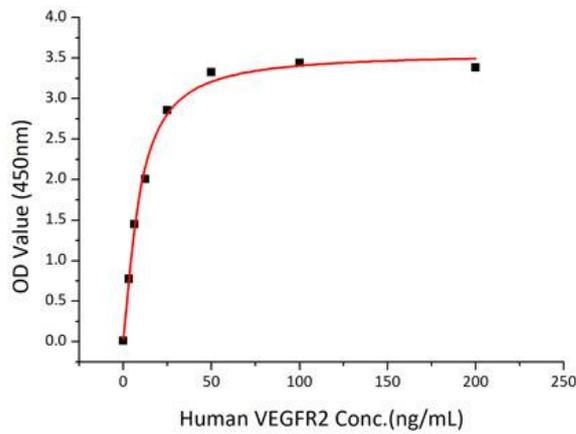
Validation Data

Image



Description

Recombinant Human VEGF-A/VEGF121 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Immobilized Recombinant Human VEGF121 at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Recombinant Human VEGFR2 with a linear range of 4-10 ng/mL.