

Active Recombinant Human VEGFA protein, His-tagged

Cat. No. VEGFA-4505H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA protein(Ala27-Arg147), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	27-147 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
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. 2. Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 for this effect is 0.09-0.36 ng/mL. 3. Recombinant Human VEGFA(40 ng/mL) and bFGF(50 ng/mL) 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.
Molecular Mass	14.91 kDa
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Purity	≥ 95 % as determined by SDS-PAGE.

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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.

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.

GENE INFORMATION

Gene Name VEGFA vascular endothelial growth factor A [Homo sapiens]

Official Symbol VEGFA

Synonyms VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor , VEGF; VEGF A; VPF; vascular permeability factor; VEGF; MVCD1; MGC70609;

Gene ID 7422

mRNA Refseq NM_001025366

Protein Refseq NP_001020537

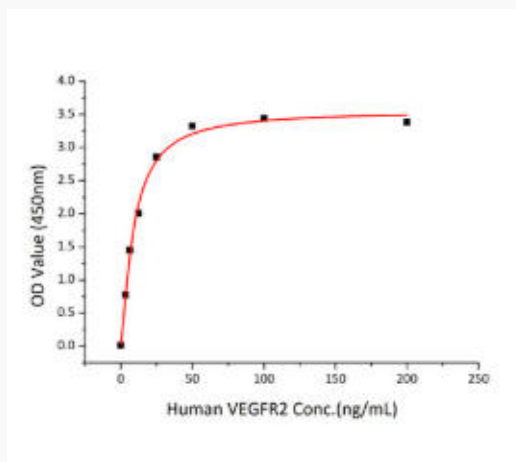
UniProt ID P15692

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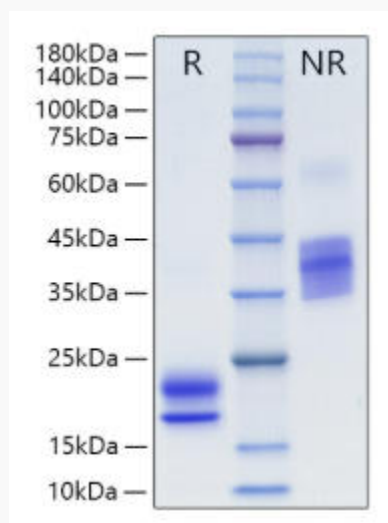
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Activity



SDS-PAGE



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