

# Recombinant Human Vascular Endothelial Growth Factor A

**Cat. No.** VEGFA-5530H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human VEGF121 is expressed in human 293 cells as a glycosylated cytokine with an apparent molecular mass of 37 kDa as dimer and 50 kDa as trimer.                                                                                                                                              |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>         | This gene is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects. |
| <b>Purity</b>              | >95% The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.                                                                                                                                                                                       |
| <b>Molecular Mass</b>      | 80 to 85 kDa, monomer, glycosylated.                                                                                                                                                                                                                                                                       |
| <b>Endotoxin Level</b>     | Endotoxin Free <1 EU/μg                                                                                                                                                                                                                                                                                    |
| <b>Biological Activity</b> | 2 to 8 ng/mL ED50                                                                                                                                                                                                                                                                                          |
| <b>Specific Activity</b>   | The specific activity was determined by the dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).                                                                                                                                                       |
| <b>Official Symbol</b>     | VEGFA                                                                                                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Pathways**

Bladder cancer; Cytokine-cytokine receptor interaction; Endochondral Ossification; Focal adhesion; Glypican 1 network; HIF-1-alpha transcription factor network; HIF-2-alpha transcription factor network; Heart Development; Hemostasis; Hypertrophy Model; Id Signaling Pathway; Integrins in angiogenesis; Neurephrin interactions with VEGF and VEGFR; Pancreatic cancer; Pathways in cancer

**GENE INFORMATION**
**Gene Name**

VEGFA vascular endothelial growth factor A [ Homo sapiens ]

**Synonyms**

VEGFA; vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascular endothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488; OTTHUMP000000165985; OTTHUMP000000165986; OTTHUMP000000165987; OTTHUMP000000224107; OTTHUMP000000224108; OTTHUMP000000224109; OTTHUMP000000224153; OTTHUMP000000224154; OTTHUMP000000224423; OTTHUMP000000224424; OTTHUMP000000224425; OTTHUMP000000224426; OTTHUMP000000224427; OTTHUMP000000224428; OTTHUMP000000224429; OTTHUMP000000224430; vascular permeability factor; Vascular endothelial growth factor A; Vascular permeability factor

**Gene ID**

7422

**mRNA Refseq**

NM\_001025366

**Protein Refseq**

NP\_001020537

**MIM**

192240

**UniProt ID**

P15692

**Chromosome**

6p12

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Location****Function**

cell surfacebinding; chemoattractant activity; cytokine activity; extracellular matrixbinding; fibronectin binding; growth factor activity; heparin binding;platelet-derived growth factor receptor binding; protein binding; proteinheterodimerization activity; vascular endothelial growth factor receptor 1binding; vascular endothelial growth factor receptor 2 binding; vascularendothelial growth factor receptor binding

**PDB rendering  
basedon 1bj1.** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA