

# 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 <1EU/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; Focaladhesion; 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;Neurophilin interactions with VEGF and VEGFR; Pancreatic cancer; Pathways incancer

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

VEGFA vascular endothelialgrowth factor A [ Homo sapiens ]

**Synonyms**

VEGFA;vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascularendothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488;OTTHUMP00000165985; OTTHUMP00000165986; OTTHUMP00000165987;OTTHUMP00000224107; OTTHUMP00000224108; OTTHUMP00000224109;OTTHUMP00000224153; OTTHUMP00000224154; OTTHUMP00000224423;OTTHUMP00000224424; OTTHUMP00000224425; OTTHUMP00000224426;OTTHUMP00000224427; OTTHUMP00000224428; OTTHUMP00000224429;OTTHUMP00000224430; 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

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**Location****Function**

cell surface binding; chemoattractant activity; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein binding; protein heterodimerization activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding

**PDB rendering based on 1bj1.**

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