

Recombinant Human Vascular Endothelial Growth Factor A

Cat. No. VEGFA-715H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Vascular Endothelial Growth Factor 165, a 23 kDa protein consisting of 165 amino acid residues, is produced as a homodimer.
Species	Human
Source	Insect Cells
Description	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.
Form	Lyophilized without additives.
Purity	> 90% as determined by SDS-PAGE and visualized by silver stain.
Molecular Mass	45 kDa
Endotoxin Level	< 0.1 ng/μg of VEGF165.
Biological Activity	Determined by the stimulation of 3H-thymidine incorporation and cell proliferation by human umbilical vein endothelial cells. The ED50 range is 1-2 ng/ml.
Reconstitution	Centrifuge vial prior to opening. Add PBS or medium containing at least 0.1% HSA or BSA to the vial to fully solubilize the protein to a concentration of 50 μg/ml. Please note

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.

Storage

Lyophilized protein is stable for 6 months at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

Official Symbol

VEGFA

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; Neurophilin 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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
MIM	192240
UniProt ID	P15692
Chromosome Location	6p12
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  Fax: 1-631-938-8127

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