

Recombinant Human VEGFA, His-tagged

Cat. No. VEGFA-31706TH **Lot. No.** (See product label)

SPECIFICATION

| | |
|---------------------------|--|
| Product Overview | Recombinant full length protein, corresponding to amino acids 5-169 of Human VEGF (VEGF165 isoform), with a N-terminal hexahistidine tag. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 5-169 a.a. |
| Description | <p>This gene is a member of the PDGF/VEGF growth factor 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, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms.</p> |
| Conjugation | HIS |
| Tissue specificity | Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. |

 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

Isoform VEGF206 and isoform VEGF145 are not widely expressed.

| | |
|------------------------------|---|
| Form | Liquid |
| Purity | >95% by SDS-PAGE |
| Storage buffer | Preservative: None Constituents: 50% Glycerol, 20mM Tris, pH 8 |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Sequence Similarities | Belongs to the PDGF/VEGF growth factor family. |
| Full Length | Full L. |

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; |
| Gene ID | 7422 |
| mRNA Refseq | NM_001025366 |
| Protein Refseq | NP_001020537 |
| Uniprot ID | P15692 |

 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



| | |
|----------------------------|---|
| Chromosome Location | 6p12 |
| Pathway | Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; |
| Function | cell surface binding; chemoattractant activity; cytokine activity; cytokine activity; extracellular matrix binding; |

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