

Recombinant Human VEGFA

Cat. No. VEGFA-31562TH **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------|--|
| Product Overview | Recombinant mature full length protein, corresponding to amino acids 27/232 of precursor Human VEGF protein |
| Species | Human |
| Source | E.coli |
| 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> |
| Tissue specificity | Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed. |
| Form | Lyophilised:Reconstitute to 1mg/ml in distilled water |

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|---------------------------------|---|
| Purity | >95% by SDS-PAGE |
| Storage | The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. |
| Sequences of amino acids | APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGGH IGEMSFLQHN KCECRPKKDR ARQENCDKPR R |
| Sequence Similarities | Belongs to the PDGF/VEGF growth factor family. |
| Full Length | Full L. |

GENE INFORMATION

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|------------------------|--|
| 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 |
| Chromosome | 6p12 |

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|-----------------|---|
| Location | |
| 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; |

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