

Native Human VEGFA

Cat. No. VEGFA-31701TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human VEGF.
Species	Human
Source	E.coli
Description	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.
Tissue specificity	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.
Form	Lyophilised:Reconstitute in 100ul dH2O
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid

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repeated freeze / thaw cycles.

Sequences of amino acids

Human VEGF is a 38.2 kDa protein consisting of two 165 amino acid polypeptide chains: APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYI FKPSCVPLM RCGGCCNDEGLECVPTTEESNITMQIMRI KPHQGGQHIGEMSFLQHNKCECRPKKDR ARQENPCGPC SERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERT CRCDKPR R

Sequence Similarities

Belongs to the PDGF/VEGF growth factor family.

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

Chromosome Location

6p12

Pathway

Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem;

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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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