

Recombinant Human neuropilin 2, His-tagged

Cat. No. VEGFA-650H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VEGF165, 1-191aa Human, His tag, Insect cell
Species	Human
Source	Insect Cells
ProteinLength	1-191 a.a.
Description	Vascular endothelial growth factor A, also known as VEGF, is growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. This protein binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth. Recombinant human VEGF165 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4), 10% glycerol, 1mM DTT, 0.1mM PMSF
Molecular Mass	23.1 kDa (197aa)
AA Sequence	MNFLLSWVHW SLALLLYLHH AKWSQAAPMA EGGGQNHHEV VKFMDVYQRS YCHPIETLVD IFQEYPDEIE YIFKPSCVPL MRCGGCCNDE GLECVPTES

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NITMQIMRIK PHQGQHIGEM SFLQHNKCEC RPKKDRAEQE NPCGPCSERR
KHLFVQDPQT CKCSCKNTDS RCKARQLELN ERTCRCDKPR RHHHHHH

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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; vascular permeability factor; VEGF; MVCD1; MGC70609;

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; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;

Function

cell surface binding; chemoattractant activity; cytokine activity; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; growth factor activity; heparin binding; heparin binding; platelet-derived growth factor recep

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