

Active Recombinant Human VEGFA

Cat. No. VEGFA-504H Lot. No. (See product label)

SPECIFICATION

Product Overview	rHu Vascular Endothelial Growth Factor expressed in CHO cells is a double, glycosylated, polypeptide chain containing full length VEGF containing 165 amino acids (VEGF-165).
Species	Human
Source	CHO
Description	Recombinant Human Vascular Endothelial Growth Factor-A is expressed at high levels in certain tumor-derived cells but is produced by a wide variety of cell types. In contrast to other factors mitogenic for endothelial cells such as FGF-1, FGF-2 and PDGF, VEGF is synthesized as a precursor containing a typical hydrophobic secretory signal sequence of 26 amino acids. Glycosylation is not required for efficient secretion of VEGF. rHu VEGF-121 produced in E. coli is a double, non-glycosylated, polypeptide chain that contains 121 amino acids and has a molecular mass of 28.42 kDa.
Form	The protein was lyophilized from a concentrated (1mg/mL) solution with no additives.
Bio-activity	Determined by its ability to stimulate 3H-Thymidine incorporation in human umbilical vein endothelial cells. The ED50 for this effect was found to be 2-6 ng/ml.
Molecular Mass	42,000 Da (by non-reducing SDS-PAGE migration)
Purity	Purified by proprietary chromatographic techniques. SDS PAGE: Not more than 3%

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total contaminants. RP-HPLC: principal peak>97%.

Stability

Lyophilized Vascular Endothelial Growth Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18oC. Upon reconstitution, rh VEGF should be stored at 4oC between 2-7 days. For long term storage, it is recommended to add

Reconstitution

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor Human in sterile nanopure water to not less than 100µg/ml. It can then be further diluted in other aqueous solutions.

Warning

Please avoid freeze-thaw cycles

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;

mRNA Refseq

[NM_001025366](#)

Protein Refseq

[NP_001020537](#)

UniProt ID

[P15692](#)

Chromosome Location

6p12

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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-specifi
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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