

## Active Recombinant Human VEGFA protein

**Cat. No.** VEGFA-19H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human VEGFA was expressed in E. coli.                                                                                                                                                                                              |
| <b>Species</b>              | Human                                                                                                                                                                                                                                          |
| <b>Source</b>               | E.coli                                                                                                                                                                                                                                         |
| <b>Predicted N Terminal</b> | APMAEGG                                                                                                                                                                                                                                        |
| <b>Form</b>                 | 50 mM acetic acid                                                                                                                                                                                                                              |
| <b>Bio-activity</b>         | The ED50 for stimulation of cell proliferation in human dermal lymphatic endothelial cells (HDLEC) by VEGF206 has been determined to be in the range of 5-15 ng/ml.                                                                            |
| <b>AA Sequence</b>          | APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS<br>CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN<br>KCECRPKKDR ARQEKKSVRG KGKGQKRRKK SRYKSWSVYV GARCCCLMPWS<br>LPGPHPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC<br>DKPRR |
| <b>Purity</b>               | > 98% by SDS-PAGE & silver stain                                                                                                                                                                                                               |
| <b>Storage</b>              | The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20 centigrade. Reconstituted VEGF206 should be stored in working aliquots at -20 centigrade. Avoid repeated freeze-thaw cycles.                     |

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**Reconstitution**

The lyophilized VEGF206 should be reconstituted in 50mM acetic acid to a concentration not lower than 50 ug/ml. For long term storage we recommend to add at least 0.1% human or bovine serum albumin.

**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\_001171624

**Protein Refseq**

NP\_001165095

**MIM**
**UniProt ID**

P15692

**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; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;

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**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 receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity

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