

## Active Recombinant Mouse Vascular Endothelial Growth Factor A

**Cat. No.** Vegfa-582M    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b>    | Recombinant Mouse VEGF-120 is a truncated version of Mouse VEGF-165. Mouse VEGF-120 is a homodimer with a molecular weight of 28.2 kDa                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | Vascular endothelial growth factor A (VEGF-A) is a protein that in humans is encoded by the VEGFA gene. This gene is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. As its name implies, VEGF-A activity has been studied mostly on cells of the vascular endothelium, although it does have effects on a number of other cell types. |
| <b>Form</b>                | Lyophilized with no additives.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>              | Purity Greater than 97% as determined by: Reducing and non-reducing SDS-PAGE. Analytical HPLC.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>        | In process                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Physical Appearance</b> | Sterile Filtered white lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Solubility</b>          | It is recommended to reconstitute the lyophilized product with sterile water at a                                                                                                                                                                                                                                                                                                                                                                                        |

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | concentration of 0.1 ?C 0.5 mgµs/ml, which can be further diluted into other aqueous solutions.                                                                                                      |
| <b>Purity Greater than 97% as determined by</b> | Reducing and non-reducing SDS-PAGE. Analytical HPLC                                                                                                                                                  |
| <b>Protein Content determined by</b>            | UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.                                                                                                                        |
| <b>Endotoxin Level</b>                          | Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.                                                                                                                                       |
| <b>Amino acid sequence</b>                      | APTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS<br>CVPLMRCAGC CNDEALECVPTSESNITMQI MRIKPHQSQH IGEMSFLQHS<br>RCECRPKKDR TKPEKCDKRPR R                                                           |
| <b>Storage</b>                                  | Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage. |

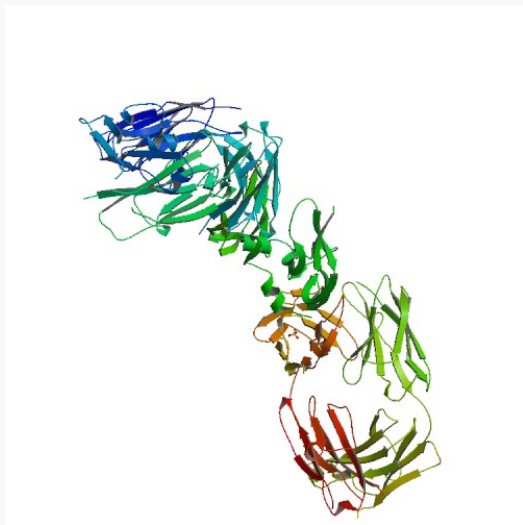
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Vegfa vascular endothelial growth factor A [ Mus musculus ]                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | Vegfa                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | Vegfa; vascular endothelial growth factor A;Vpf; Vegf; Vegf-a; Vegf120; Vegf164; VEGF120; VPF; Vegf188; OTTMUSP00000017463; VEGF164; OTTMUSP00000017464; VEGF-A; OTTMUSP00000022243; vascular permeability factor; VEGF188; MGC70609; MVCD1; VEGF; Vascular permeability factor; vascular endothelial growth factor; vascular endothelial growth factor isoform VEGF165 |

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| <b>Gene ID</b>                      | 22339                                                                                                                                                                               |
| <b>mRNA Refseq</b>                  | NM_001025250                                                                                                                                                                        |
| <b>Protein Refseq</b>               | NP_001020421                                                                                                                                                                        |
| <b>UniProt ID</b>                   | Q00731                                                                                                                                                                              |
| <b>Chromosome Location</b>          | 17 C; 17 24.2 cM                                                                                                                                                                    |
| <b>Pathway</b>                      | Bladder cancer; Focal adhesion; Cytokine-cytokine receptor interaction; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; VEGF signaling pathway; mTOR signaling pathway |
| <b>Function</b>                     | growth factor activity; heparin binding                                                                                                                                             |
| <b>PDB rendering based on 1bj1.</b> |                                                                                                 |