

Active Recombinant Mouse Vascular Endothelial Growth Factor A

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

SPECIFICATION

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| Product Overview | 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 |
| Species | Mouse |
| Source | E.coli |
| Description | 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. |
| Form | Lyophilized with no additives. |
| Purity | Purity Greater than 97% as determined by: Reducing and non-reducing SDS-PAGE. Analytical HPLC. |
| Bio-activity | In process |
| Physical Appearance | Sterile Filtered white lyophilized (freeze-dried) powder. |
| Solubility | 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. |
| Purity Greater than 97% as determined by | Reducing and non-reducing SDS-PAGE. Analytical HPLC |
| Protein Content determined by | UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard. |
| Endotoxin Level | Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug. |
| Amino acid sequence | APTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVPTSESNTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKRPR R |
| Storage | 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

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| Gene Name | Vegfa vascular endothelial growth factor A [Mus musculus] |
| Official Symbol | Vegfa |
| Synonyms | 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 |

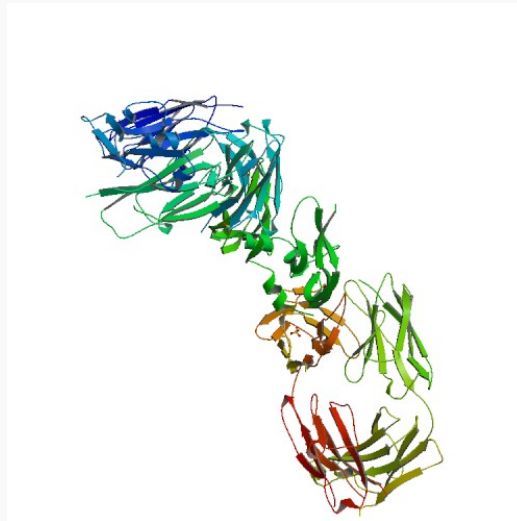
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| Gene ID | 22339 |
| mRNA Refseq | NM_001025250 |
| Protein Refseq | NP_001020421 |
| UniProt ID | Q00731 |
| Chromosome Location | 17 C; 17 24.2 cM |
| Pathway | Bladder cancer; Focal adhesion; Cytokine-cytokine receptor interaction; Pancreatic cancer;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

PDB rendering based on 1bj1.



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