

## Active Recombinant Mouse Vegfa Protein(N115K)

**Cat. No.** Vegfa-18M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Mouse Vegfa Protein(27-190 aa(N115K)) was expressed in Yeast.                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 27-190 aa(N115K)                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human umbilical vein endothelial cells(HUVEC) is between 1.0-5.0 ng/ml.                                                                                                     |
| <b>Molecular Mass</b>   | Theoretically as a disulfide-linked homodimeric protein, the product consists of two 165 amino acid polypeptide chains. As a result of glycosylation, it migrates to at least two bands with molecular weights ranging from approximately 40 kDa in SDS-PAGE under non-reducing conditions. |
| <b>AASequence</b>       | MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS<br>CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS<br>RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ<br>LELNERTCRC DKPRR                                                                                              |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 0.01 EU/μg of rMuVEGF164, Yeast as determined by LAL method.                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>         | > 97 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.                                                                                                        |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |

## 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; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188; |
| <b>Gene ID</b>         | 22339                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001025250                                                                                                     |
| <b>Protein Refseq</b>  | NP_001020421                                                                                                     |

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