

Recombinant Murine Vascular Endothelial Growth Factor ₁₆₄ (rMuVEGF₁₆₄)

PrimeGene Technical DataSheet

Catalog Number: 125-07

Source: Escherichia coli

Molecular Weight: Approximately 38.8 kDa, a disulfide-linked homodimeric protein consisting of two 165 amino acid

polypeptide chains with Met at N-terminus.

Size: $10\mu g/100\mu g/500\mu g/1mg$

AA Sequence: MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC

CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC

SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

Purity: > 90 % by SDS-PAGE analyse.

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ as determined by a cell proliferation

assay using human umbilical vein endothelial cells(HUVEC) is less than 5 ng/ml, corresponding to a

specific activity of $> 2.0 \times 10^5$ IU/mg.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.Formulation: Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4.

Endotoxin: Less than 1 EU/μg of rMuVEGF₁₆₄ as determined by LAL method.

Reconstitution: 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 \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: 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.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. **NOT FOR HUMAN USE**.

Murine Vascular Endothelial Growth Factor 164

Shanghai PrimeGene Bio-Tech Co., Ltd.

Vascular Endothelial Growth Factor is a sub-family of growth factors produced by cells, which stimulates vasculogenesis and angiogenesis. VEGF's normal function is to create new blood vessels during embryonic development, new blood vessels after injury, muscle following exercise, and new vessels (collateral circulation) to bypass blocked vessels. Mouse and rat express alternately spliced isoforms of 120, 164, and 188 amino acids (a.a.) in length. Recombinant mouse VEGF164 contains 165 amino acids residues and it is a disulfide-linked homodimer. In addition, it shares 97 % a.a. sequence identity with corresponding regions of rat, 89 % with human and porcine, 88 % with bovine, and 90 % with feline, equine and canine VEGF, respectively.

Rev. 10/11/2024 V.4

Website: www.primegene.com. Email: info.pg@bio-techne.com

Tel: +86 21 52293200