

Rat VEGF Recombinant Protein



RPPB1080

Product Information Protein Information

Product SKU:

RPPB1080

Accession:

Q00731

Host:

Saccharomyces
cerevisiae

Protein description:

Vascular Endothelial Growth Factor Rat Recombinant produced in yeast is a disulfide-linked homodimer consisting of 2x165 amino acid polypeptide chains, having a molecular mass of approximately 25.7kDa each. VEGF is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Purity:

Greater than 90.0% as determined by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized VEGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Vascular Endothelial Growth Factor should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid Sequence:

MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP
TSENVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCCK
NTDSRCKARQ LELNERTCRC DKPRR.

Biological Activity:

The ED₅₀ was measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells and was found to be 0.75-3.75 ng/ml.