Recombinant Protein Technical Manual

Recombinant Human/Cynomolgus VEGFA/VEGF165 Protein (Active)

RPES0878

Product Data:

Product SKU: RPES0878

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P15692-4

Protein Information:

Molecular Mass: 19.2 kDa

AP Molecular Mass: 20 & 22 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 46 ng/mL.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 7.0.

1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

2. Please contact us for

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: MVCD1;VEGF;VEGF165;VPF;Vascular Endothelial Growth Factor Isoform 165

Immunogen Information:

Sequence: Met 1-Arg191

Background:

Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.