

Recombinant Human/Cynomolgus VEGFA/VEGF165 Protein

Catalog No. PKSH031978

Note: Centrifuge before opening to ensure complete recovery of vial contents.

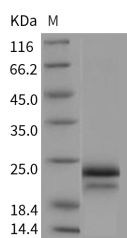
Description

Synonyms	MVCD1;VEGF;VEGF165;VPF;Vascular Endothelial Growth Factor Isoform 165
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Arg191
Accession	P15692-4
Calculated Molecular Weight	19.2 kDa
Observed molecular weight	20&22 kDa
Tag	None
Bioactivity	Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 4-16 ng/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Vascular endothelial growth factor (VEGF); also known as vascular permeability factor (VPF) and VEGF-A; is a potent

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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.