

Recombinant Human/Cynomolgus VEGFA/VEGF165 Protein

Catalog Number: PKSH031978

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

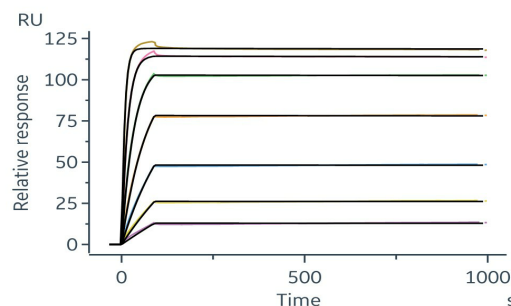
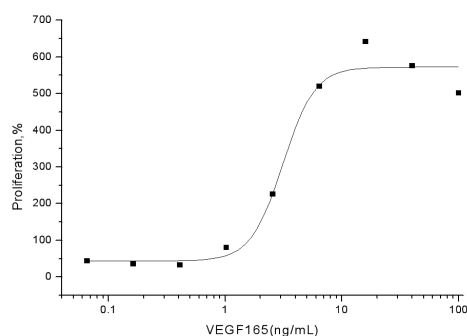
Description

Species	Human
Source	HEK293 Cells-derived Human VEGFA/VEGF165 protein Met 1-Arg191
Calculated MW	19.2 kDa
Observed MW	20&22 kDa
Accession	P15692-4
Bio-activity	Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED ₅₀ 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% Tween 80 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



Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED₅₀ for this effect is typically 2-10 ng/mL.

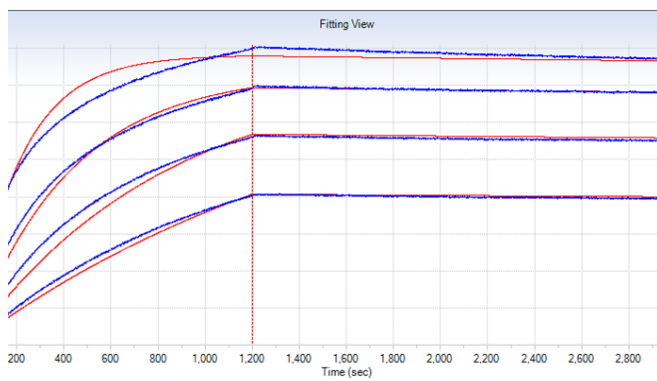
Bevacizumab captured on Protein A chip can bind Recombinant Human, Cynomolgus VEGF165 Protein (Cat: PKSH031978) with an affinity constant of 14.9 pM as determined in an SPR assay (Biacore 8K).

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Labeled biotin to VEGF165 Protein, Human / Cynomolgus, Recombinant by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of VEGF165 Protein, Human / Cynomolgus, Recombinant, Biotinylated (Cat:#) bound to Avastin was 0.1 nM.

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.

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