VEGF-A/VEGF121, Human, Recombinant

Cat. No.： PCK013

产品信息

别名	Vascular Endothelial Growth Factor A;VEGFA;VEGF-A;Vascular Permeability Factor;VPF;VEGF;VEGF121
物种	Human
表达宿主	E.coli
序列信息	Ala27-Arg147
检索号	P15692-9
分子量	14.2 kDa
有效期	12 months
生物活性	Immobilized Human VEGF 121 at 2 μg/mL (100 μL/well) can bind Human VEGFR2-Fc. The ED50 of Human VEGFR2-Fc is 13.04 ng/mL.

产品特性

内毒素	< 1.0 EU per 1 μg as determined by LAL test.
保存	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
运输	Ambient temperature or ice pack.
制剂	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
复溶	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

背景介绍

Human VEGF121, also known as Vascular Endothelial Growth Factor A, VEGFA, Vascular Permeability Factor, VPF and VEGF, is a homodimeric, heparin-binding glyco Protein which belongs to the platelet-Derived Growth Factor (PDGF)/ vascular Endothelial Growth Factor (VEGF) family. VEGF-A is a glycosylated mitogen that specifically acts on Endothelial cells and has various effects, including mediating increased vascular Permeability, inducing angiogenesis, vasculogenesis, permeabilization of blood vessels and Endothelial cell Growth, increasing microvascular Permeability, promoting cell migration and inhibiting apoptosis. Alternatively spliced transcript variants of VEGF-A encod either secreted or cell-associated isoforms. The lymphangiogenesis may be promoted by upregulation of VEGF121, which may in turn act in part via induction of VEGF-C. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 Receptors, heparan sulfate and heparin. NRP1/ Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor Growth.

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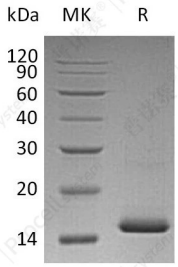
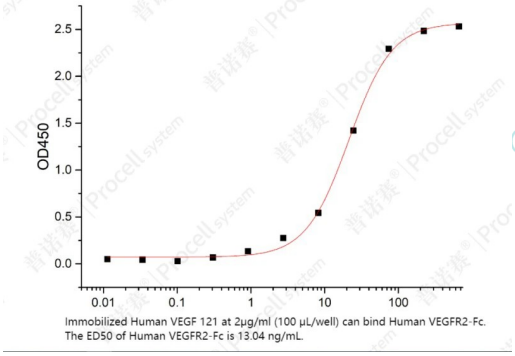
SDS-PAGE



Bio activity



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