VEGF165/VEGF-A, Human, Recombinant

货号：PCK267

产品信息

别名	VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen
物种	Human
表达宿主	E.coli
序列信息	MAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFLQHNK CECRPKKDRARQENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQL ELNERTCRCDKPRR with polyhistidine tag at the C-terminus.
检索号	P15692.2
分子量	20.11 kDa
标签	His-tag at the C-terminus
生物活性	Measure by its ability to induce HUVEC cells proliferation.The ED50 for this effect is <5 ng/mL.The specific activity of recombinant human VEGF165 is approximately >1.4 x 10^6 IU/mg.

产品特性

纯度	>98% as determined by SDS-PAGE. Ni-NTA chromatography
内毒素	<0.1 EU per 1 μg of the protein by the LAL method.
保存	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g.0.1%BSA,10%FBS,5%HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
运输	Ambient temperature or ice pack.
制剂	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.

复融	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL.Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

背景介绍

Vascular endothelial growth factor (VEGF), originally known as vascular permeability factor (VPF), is a signal protein produced by cells that stimulates the formation of blood vessels. VEGF is required during embryogenesis to regulate the proliferation, migration, and survival of endothelial cells. In adults, VEGF functions mainly in wound healing and the female reproductive cycle. Pathologically, it is involved in tumor angiogenesis and vascular leakage. Circulating VEGF levels correlate with disease activity in autoimmune diseases such as rheumatoid arthritis, multiple sclerosis and systemic lupus erythematosus. VEGF is induced by hypoxia and cytokines such as IL-1, IL-6, IL-8, oncostatin M and TNF-alpha.

SDS-PAGE