9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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VEGF Equine

Vascular Endothelial Growth Factor Equine Recombinant
GRF0408

Product Overview

Name	VEGF Equine
Description	
Vascular Endothelial Growth Factor Equine Recombinant	
Accession (Primary)	Q9GKR0
Synonyms	
VEGF-A, VPF, glioma-derived endothelial cell mitogen.	
Introduction	
Vascular endothelial growth factor is an important signaling protein involved in both vasculogenesis and angiogenesis. As its name implies, VEGF activity has been mostly studied on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g. stimulation monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells).VEGF mediates increased vascular permeability, induces angiogenesis, vasculogenesis and endothelial cell growth, promotes cell migration, and inhibits apoptosis. In vitro, VEGF has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM Sodium Phosphate, pH 7.5.	
Stability	
Lyophilized VEGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MAPMAEGEHK THEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TAEFNITMQI MRIKPHQSQH IGEMSFLQHS KCECRPKKDK ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

Biological Activity

The ED 50 as determined by HUVEC Proliferation is ≤ 10 ng/mL, corresponding to a specific activity of ≥ 1.0 x 10^5 units/mg.

Solubility

It is recommended to reconstitute the lyophilized VEGF in sterile water at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

Precautions

VEGF Equine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9GKR0)