9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

VEGF Mouse, Sf9

Vascular Endothelial Growth Factor Mouse Recombinant, Sf9
GRF0420

Product Overview

Name	VEGF Mouse, Sf9

Description

Vascular Endothelial Growth Factor Mouse Recombinant, Sf9

Accession (Primary)	Q00731

Synonyms

Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.

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/ macrophagemigration, 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 mitogenesisand 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 are linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.

Source

Baculovirus Sf9 cells.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

Stability

Lyophilized Vascular Endothelial Growth Factor Sf9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF-Sf9 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

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Biological Activity

The ED 50 range, determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) (measured by 3 H-thymidine uptake) is 1-2 ng/ml, corresponding to a specific activity of 1x10 6 Units/mg.

Solubility

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor-Sf9 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

VEGF Mouse, Sf9 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q00731)