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VEGF Human, Yeast

Vascular Endothelial Growth Factor Human Recombinant, Yeast
GRF0416

Product Overview

Name	VEGF Human, Yeast

Description

Vascular Endothelial Growth Factor Human Recombinant, Yeast

Accession (Primary)	P15692

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/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

Pichia Pastoris.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Formulation

The protein contains 20mM Phosphate- Buffered Saline, pH 7.4.

Stability

Vascular Endothelial Growth Factor Human although stable at 15°C for 2 weeks, should be stored 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 90.0% as determined by SDS-PAGE.

Biological Activity

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Determined by its ability to stimulate 3H-Thymidine incorporation in human umbilical vein endothelial cells, the ED50 for this effect was found to be 2-6ng/ml.

Precautions

VEGF Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P15692)