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VEGF Human, Baculovirus

Vascular Endothelial Growth Factor Human Recombinant, Baculovirus
GRF0411

Product Overview

Name	VEGF Human, Baculovirus

Description

Vascular Endothelial Growth Factor Human Recombinant, Baculovirus

Accession (Primary)	P15692

Synonyms

Vascular Endothelial Growth Factor A, VEGF, Vascular Permeability Factor, MVCD1, VPF, Vascular Endothelial Growth Factor, VEGF-A, Vascular endothelial growth factor A.

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

Sf9, Baculovirus cells.

Physical Appearance

Sterile filtered colorless solution.

Formulation

VEGF protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4), 30% glycerol, 1mM DTT and 0.1mM PMSF.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

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Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP

TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK

NTDSRCKARQ LELNERTCRC DKPRR HHHHH H .

Precautions

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

Target Information: (P15692)