
Product Data Sheet

Product Name: VEGF Human, Baculovirus

Cat. No.: GP21039

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Vascular Endothelial Growth Factor A; VEGF; Vascular Permeability Factor; MVCD1; VPF; Vascular Endothelial Growth Factor; VEGF-A; Vascularendothelial growth factor A.		
Amino Acid Sequence	MNFLLSWVHW SLALLLYLHH AKWSQAAPMA EGGGQNHHEV VKFMDVYQRSYCHPIETLVD IFQEYPDEIE YIFKPSCVPL MRCGGCCNDE GLECVPTTEES NITMQIMRIK PHQGQHIGEMSFLQHKNKCEC RPKKDRARQE NPCGPCSERR KHLFVQDPQT CKCSCKNTDS RCKARQLELNERTCRCDKPR RHHHHHHH.		
Formulation	VEGF protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4), 10% glycerol, 1mM DTT and 0.1mM PMSF.		

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

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

VEGF produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 197 amino acids (1-191 a.a.) and having a molecular mass of 23.1 kDa. VEGF is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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