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VEGF Human, CHO

Vascular Endothelial Growth Factor Human Recombinant, CHO
GRF0412

Product Overview

Name	VEGF Human, CHO
Description	
Vascular Endothelial Growth Factor Human Recombinant, CHO	
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/ 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	
Chinese Hamster Ovarian Cell.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a Phosphate- Buffered Saline, pH 7.4.	
Stability	
Lyophilized Vascular Endothelial Growth Factor Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF Human Recombinant 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	

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Greater than 97.0% as determined by SDS-PAGE.

Biological Activity

The protein was tested in HUVEC cells, the ED50 for this effect was found to be 2-6ng/ml.

Solubility

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

Precautions

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

Target Information: (P15692)