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32-1826: VEGF CHO Recombinant Protein

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

Description

Source : Chinese Hamster Ovarian Cell. Vascular Endothelial Growth Factor Human Recombinant produced in CHO cells is a double, glycosylated, polypeptide chain containing 165 amino acids and migrates as 44 kDa in SDS-PAGE under non-reducing conditions. The VEGF is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein was lyophilized from a Phosphate- Buffered Saline, pH 7.4.
Storage condition :	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.

Application Note

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor Human in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. The protein was tested in HUVEC cells, the ED50 for this effect was found to be 2-6ng/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.