

Vascular Endothelial Growth Factor Active Protein | VEGF active protein

Recombinant Human Vascular Endothelial Growth Factor, CHO

CATALOG # AAA38137	HOST Chinese Hamster Ovarian Cells (CHO)
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PRODUCT SYNONYMS

Vascular Endothelial Growth Factor; Recombinant Human Vascular Endothelial Growth Factor; CHO; VEGF Human; Vascular Endothelial Growth Factor Human Recombinant; Vascular endothelial growth factor A; VEGF-A; Vascular permeability factor; VPF; VEGF; MGC70609; VEGF CHO; VEGF active protein

PRODUCT SPECIFICATIONS

Host	Chinese Hamster Ovarian Cells (CHO)
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized from a Phosphate- Buffered Saline, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence Length	412
Solubility	It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor Human in sterile 18M Omega - cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	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, corresponding to a Specific Activity of 166,667-500,000IU/mg.
Preparation and Storage	Lyophilized Vascular Endothelial Growth Factor Human although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution VEGF Human Recombinant should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for VEGF active protein	Description: 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. 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.
Product Categories/Family for VEGF active protein	Cytokines and Growth Factors; Growth Factors; VEGF

NCBI AND UNIPROT INFORMATION

NCBI GI #	76781480
NCBI GeneID	7422

NCBI Accession #	NP_001020537.2
NCBI GenBank Nucleotide #	NM_001025366.2
UniProt Accession #	P15692; O60720; O75875; Q074Z4; Q16889; B5BU86; H0Y2S8; H0Y407; H0Y414; H0Y462; H0Y8N2; H3BLW7
Molecular Weight	34,406 Da
NCBI Official Full Name	vascular endothelial growth factor A isoform a
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VPF; VEGF; MVCD1
NCBI Protein Information	vascular endothelial growth factor A; vascular permeability factor
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/chinese-hamster-ovarian-cells-vegf-active-protein/vascular-endothelial-growth-factor/38137>