

VEGFA

Recombinant Human VEGF110 / VEGF-A

Catalog No.	CRH757B-2	Quantity:	50 µg
Alternate Names:	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF		
Description:	Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.		
UniProt ID:	P15692		
Accession Number:	NP_001191313.1		
Protein Construction:	A DNA sequence encoding the human VEGF110 (Met1-Arg136) was expressed.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human VEGF110 consists of 110 amino acids with a predicted molecular mass of 12.7 kDa.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is 2-10 ng/mL.		
Predicted N-terminal:	Ala 27		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



Cell Sciences®

65 Parker Street

Unit 11

Newburyport, MA 01950

Toll Free: 888-769-1246

Phone: 978-572-1070

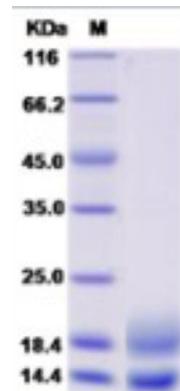
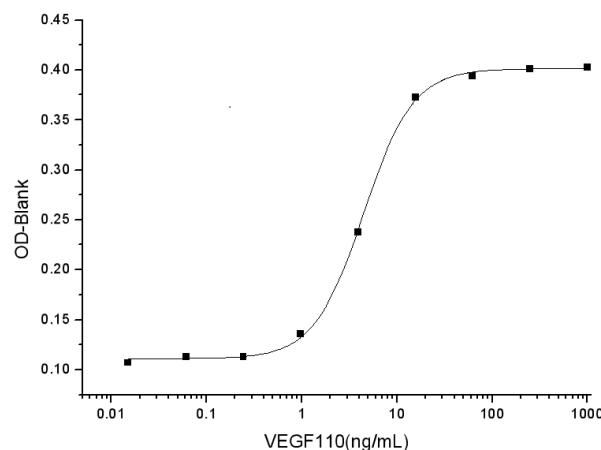
Fax: 978-992-0298

E-mail: info@cellsciences.com

Website: www.cellsciences.com

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SDS-PAGE



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Fax: 978-992-0298

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