

Human CellExp™ VEGF110, Human Recombinant

CATALOG NO:	P1258-10	10 µg
ALTERNATE NAMES:	RP1-261G23.1, MGC70609, MVCD1, VEGFA, VPF	
SOURCE:	HEK 293 cells (Ala 27 - Arg 136)	
PURITY:	> 95% by SDS – PAGE and SEC-HPLC	
MOL. WEIGHT:	This protein carries no tag. The protein has a calculated MW of 12.6 kDa. As a result of glycosylation, the protein migrates as 18-20 kDa under reducing (R) condition, and 40-45 kDa (homodimer) under non-reducing (NR) condition (SDS-PAGE). This product does not contain a heparin binding domain, and therefore doesn't bind with heparin.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally Trehalose is added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex.	
DESCRIPTION:	Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, and is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. This 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, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. Alternatively spliced isoforms of 110,121,145,165,183,189 and 206 amino acids in length are expressed in humans.	
SPECIFIC ACTIVITY:	Immobilized Human VEGF110 at 2 µg/mL (100 µL/well) can bind VEGFR1/R2-Fc with a linear range of 1-10 ng/mL. Immobilized Human VEGF110 at 2 µg/mL (100 µL/well) can bind Human VEGF R1 Protein, His Tag with a linear range of 3-100 ng/mL	

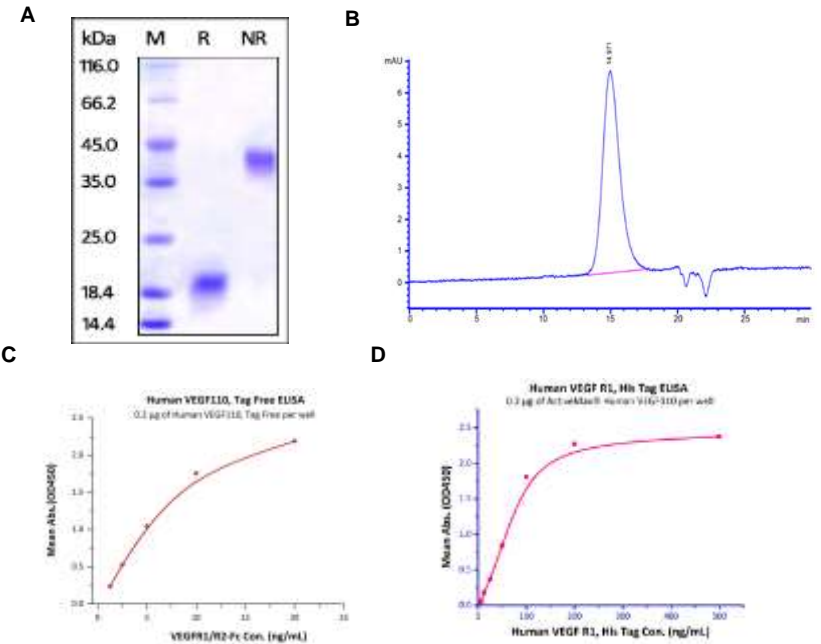


Fig. A. Human VEGF110 on SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

Fig. B. The purity of Human VEGF110 was greater than 95% as determined by SEC-HPLC

Fig. C. Immobilized Human VEGF110 at 2 µg/mL (100 µL/well) can bind VEGFR1/R2-Fc with a linear range of 1-10 ng/mL

Fig. D. Immobilized Human VEGF110 at 2 µg/mL (100 µL/well) can bind Human VEGF R1 Protein, His Tag with a linear range of 3-100 ng/mL

RELATED PRODUCT:

- Human CellExp™ VEGF 121, Human Recombinant (Cat. No. 6484)
- Human CellExp™ VEGF 165, Human Recombinant (Cat. No. 6485)
- Human CellExp™ VEGF120, mouse recombinant (Cat. No. 7424)
- Human CellExp™ VEGF164, mouse recombinant (Cat. No. 7425)
- Human CellExp™ VEGF-B, human recombinant (Cat. No. 7230)

FOR RESEARCH USE ONLY! Not to be used on humans.