


CA1086	HumanKine™ VEGF121			
	Prod. No. S2344-10UG	lot #: PRXXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	37 kDa homodimer; 50 kDa homotrimer, glycosylated
Activity	Typically 2 to 8 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human VEGF121 expressed in engineered human cells. VEGF121 is a 37kDa homodimeric, 50kDa homotrimeric disulfide-linked glycoprotein and belongs to the PDGF/VEGF growth factor family. Many cell types secrete VEGF and it is a potent angiogenic factor and mitogen that stimulates proliferation, migration, and formation of endothelial cells. VEGF stimulates permeabilization of blood vessels and is present in some tumors of nervous system. VEGF is induced by hypoxia, oncogene mutations, and cytokines such as IL-1, IL-8, TNF-α.

Note: Representative data are shown below (not Lot-specific).

Formulation:

Lyophilized in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).

Purity Confirmation:

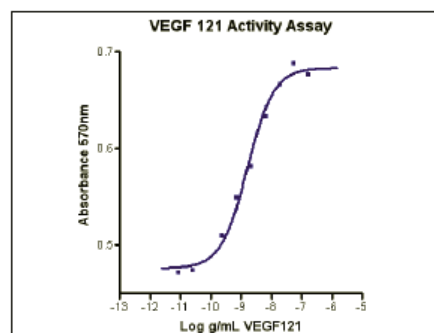
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

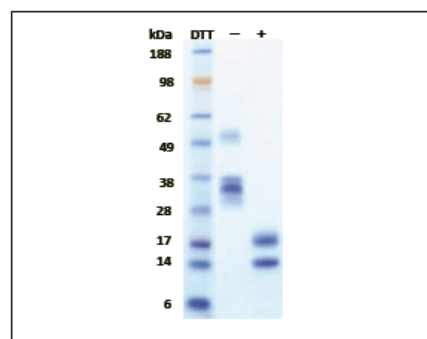
Conn, G., et al (1990) PNAS 87, 1323-1327
Neufeld, G., et al (1999) FASEB Journal 13, 9-22

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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A. Activity Assay



B. SDS-PAGE



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