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Recombinant Human VEGF-121

Catalog No.	CRH330A	**Quantity:**	2 µg
	CRH330B		100 µg
	CRH330C		1.0 mg

Alternate Names: VEGF-A, VPF, glioma-derived endothelial cell mitogen

Description: Vascular endothelial growth factor-A (VEGF-A) is produced by a wide variety of cell types, including tumor and vascular cells. VEGF-A is a mediator of vascular growth, vascular permeability, and plays a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several alternatively spliced isoforms, with one being VEGF-121. The VEGF-121 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell function.

Gene ID: 7422

UniProtKB: P15692-9

Source: *E. coli*

Molecular Weight: Dimer, 14.1/28.3 kDa (121/242 aa)

Formulation: Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg

Biological Activity: ED_{50} ≤ 5 ng/ml, determined by HUVEC proliferation.

Specific Activity: ≥2.0 x 10^5 U/mg

Amino Acid Sequence: MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV
PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENCDKP RR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipetting the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for reconstitution. A small amount of precipitate may be seen.

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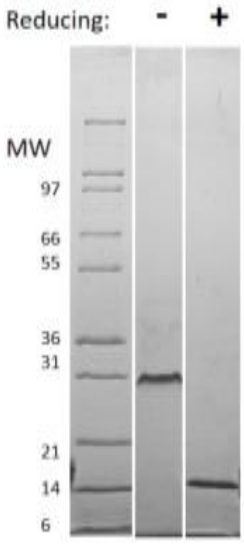
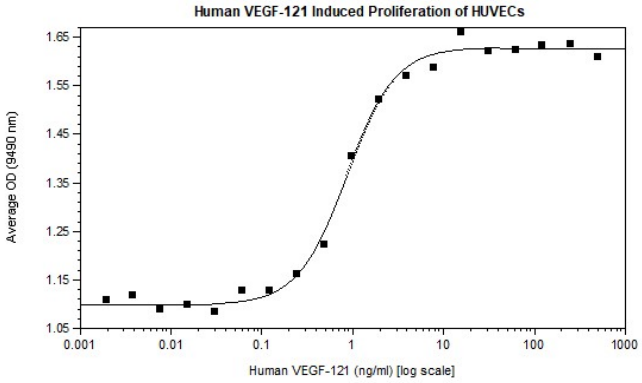
Storage & Stability: Upon receipt, store at -20 °C for up to 1 year. Upon reconstitution, preparation is stable for up to one month at 2-8 °C. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. **Avoid repeated freeze-thaw cycles.**

Figure: 1 µg run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.





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