



*Recombinant Human EG-VEGF*  
(*Endocrine Gland Vascular Endothelial Growth Factor*)

*Catalog Number: 100-07*  
*Accession Number: P58294*

*Specifications and Uses:*

**Alternate Names:** Prokineticin 1, PROK1

**Description:**

Endocrine Gland-derived Vascular Endothelial Growth Factor (EG-VEGF) is an angiogenic growth factor specifically expressed in the ovaries, testis, adrenal and placental tissues. The identification of tissue-selective angiogenic factors raises the possibility that other secreted molecules in this class exist. EG-VEGF expression correlates with vascularity in polycystic ovary syndrome, a leading cause of infertility. Recombinant human EG-VEGF is a non-glycosylated protein, containing 86 amino acids, with a molecular weight of 9.6 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human EG-VEGF is lyophilized with no additives. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically ≥ 97%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

The activity is determined by the dose-dependent proliferation of MIA PaCa-2 cells and is typically 1-4 μg/mL.

**AA Sequence:**

AVITGACERD VQCGAGTCCA ISLWLRGLRM CTPLGREGEE CHPGSHKVPF FRKRKHHTCP CLPNLLCSRF  
PDGRYRCSMD LKNINF

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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