

PROK1

Recombinant Human Endocrine Gland Vascular Endothelial Growth Factor

Catalog No.	CRV015A	Quantity:	5 µg
	CRV015B		20 µg
	CRV015C		1.0 mg
	CRV015D		100 µg

Alternate Names: EGVEGF, PK1, Prokineticin 1, PROK1, PRK1

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.

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

Gene ID: 84432

Protein Accession No: P58294

Source: *E. coli*

Molecular Weight: 9.6 kDa

Formulation: Recombinant human EG-VEGF is lyophilized with no additives.

Purity: ≥ 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.

Amino Acid Sequence: AVITGACERD VQCGAGTCCA ISLWLRGLRM CTPLGREGEE CHPGSHKVPF
FRKRKHHTCP CLPNLLCSRF PDGRYRCSMD LKNINF

Reconstitution: **Centrifuge vial prior to 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.

Storage & Stability: 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. **Avoid repeated freeze-thaw cycles.**

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