

Recombinant Human EG-VEGF/PK1 Protein

Catalog No.: RP03103 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	84432	P58294

Tags

C-His

Synonyms

EG-VEGF; PK1; PRK1

Product Information

Source	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
11kDa	15kDa

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

EG-VEGF, also known as prokineticin-1, is a member of the AVIT (prokineticin) family. Prokineticins are secreted proteins that can promote angiogenesis and induce strong gastrointestinal smooth muscle contraction. EG-VEGF can be detected in the steroidogenic glands, ovary, testis, adrenal and placenta. EG-VEGF has little or no effect on a variety of other endothelial and non-endothelial cell types. It induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. It directly influences neuroblastoma progression by promoting the proliferation and migration of neuroblastoma cells. EG-VEGF may play a role in placentation. It may also function in normal and pathological testis angiogenesis. It positively regulates PTGS2 expression and prostaglandin synthesis.

Basic Information

Description

Recombinant Human Prokineticin-1/EG-VEGF Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe105) of human Prokineticin-1/EG-VEGF (Accession # NP_115790.1) fused with His tag at the C-terminus.

Bio-Activity

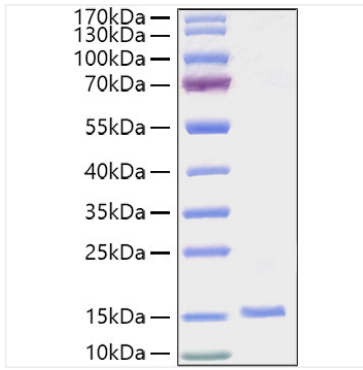
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Prokineticin-1/EG-VEGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15kDa.