Recombinant Human PROK1 protein

Cat. No. PROK1-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROK1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	86
Description	The protein encoded by this gene induces proliferation, migration, and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. It has little or no effect on a variety of other endothelial and non-endothelial cell types. Its expression is restricted to the steroidogenic glands (ovary, testis, adrenal, and placenta), is induced by hypoxia, and often complementary to the expression of vascular endothelial growth factor (VEGF), suggesting that these molecules function in a coordinated manner.
Form	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using bovine EJG cells is less than 2.0 μg/ml, corresponding to a specific activity of > 500 IU/mg.
Molecular Mass	Approximately 9.7 kDa, a single non-glycosylated polypeptide chain containing 86 amino acids.

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AA Sequence	AVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEECHPGSHKVPFFRKRK HHTCPCLPNLLCSRFPDGRYRCSMDLKNINF
Endotoxin	Less than 0.1 EU/μg of rHuEG-VEGF as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	PROK1
Official Symbol	PROK1
Synonyms	PROK1; prokineticin 1; prokineticin-1; black mamba toxin related protein; EGVEGF; mambakine; PK1; PRK1; EG-VEGF; black mamba toxin-related protein; endocrine-gland-derived vascular endothelial growth factor;
Gene ID	84432
mRNA Refseq	NM_032414

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Protein Refseq	NP_115790
MIM	606233
UniProt ID	P58294

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