

Prokineticin-1/EG-VEGF Protein, Human (sf9, His)

Cat. No.:	HY-P74616
Synonyms:	Prokineticin-1; EG-VEGF; Mambakine; PROK1
Species:	Human
Source:	Sf9 insect cells
Accession:	P58294 (M1-F105)
Gene ID:	84432
Molecular Weight:	Approximately 15 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 0.02% Tween-80, 10% gly, 1 mM DTT.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Prokineticin-1/EG-VEGF Protein stands out as a potent regulator of gastrointestinal (GI) smooth muscle contraction, highlighting its role in modulating gut motility. Beyond its influence on smooth muscle, this protein exhibits a multifaceted impact on capillary endothelial cells derived from endocrine glands, inducing proliferation, migration, and fenestration. Importantly, Prokineticin-1/EG-VEGF demonstrates specificity by having little or no effect on various other endothelial and non-endothelial cell types. Its role extends to the enteric neural crest cells, where it induces proliferation and differentiation. In neuroblastoma progression, this protein directly influences the proliferation and migration of neuroblastoma cells, implicating its involvement in tumor dynamics. Additionally, Prokineticin-1/EG-VEGF positively regulates PTGS2 expression and prostaglandin synthesis, suggesting a potential role in inflammatory responses. With implications in placentation and normal as well as pathological testis angiogenesis, Prokineticin-1/EG-VEGF emerges as a versatile signaling molecule with diverse cellular effects across various physiological and pathological contexts.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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