

Animal-Free EGF Protein, Pig (His)

Cat. No.:	HY-P700236AF
Synonyms:	Pro-epidermal growth factor; Urogastrone; EGF; HOMG4
Species:	Pig
Source:	E. coli
Accession:	Q00968 (970-1022)
Gene ID:	397083
Molecular Weight:	Approximately 7.1 kDa

PROPERTIES

AA Sequence	M N S Y S E C P P S H D G Y C L H G G V C M Y I E A V D S Y A C N C V F G Y V G E R C Q H R D L K W W E L R
Appearance	Lyophilized powder
Formulation	Lyophilized from a solution containing 1X PBS, pH8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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>EGF Protein serves as a potent stimulator of the growth of diverse epidermal and epithelial tissues in both in vivo and in vitro settings, and it exhibits growth-promoting effects on certain fibroblasts in cell culture. In addition to its role in tissue growth, this protein functions as a magnesiotropic hormone, actively promoting magnesium reabsorption in the renal distal convoluted tubule by engaging EGFR and activating the magnesium channel TRPM6, as suggested by similarity.</p> <p>Furthermore, EGF Protein engages in molecular interactions such as binding to EGFR, facilitating EGFR dimerization, and interacting with RHBDF1. The latter interaction may contribute to the potential retention of EGF in the endoplasmic reticulum, regulating its degradation through endoplasmic reticulum-associated degradation (ERAD). Additionally, its interaction with RHBDF2 hints at a multifaceted role in cellular processes, further highlighting the versatility of EGF Protein in various molecular pathways.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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