

EGF Protein, Mouse (HEK293)

Cat. No.:	HY-P72983
Synonyms:	Pro-epidermal growth factor; Urogastrone; EGF; HOMG4
Species:	Mouse
Source:	HEK293
Accession:	P01132 (N977-R1029)
Gene ID:	13645
Molecular Weight:	Approximately 7 kDa

PROPERTIES

AA Sequence	<p> N S Y P G C P S S Y D G Y C L N G G V C M H I E S L D S Y T C N C V I G Y S G D R C Q T R D L R W W E L R </p>
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED ₅₀ for this effect is 67.14 pg/mL, corresponding to a specific activity is 1.489×10 ⁷ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	EGF is a potent growth factor that promotes the proliferation of various epidermal and epithelial tissues both in vivo and in vitro, as well as certain fibroblasts in cell culture. It acts as a magnesiotropic hormone by stimulating the reabsorption of magnesium in the renal distal convoluted tubule through the activation of EGFR and the magnesium channel TRPM6. EGF also interacts with EGFR, facilitating EGFR dimerization, and forms interactions with RHBDF1 and RHBDF2, potentially regulating its intracellular localization and degradation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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