EGF Protein, Mouse

Cat. No.:	HY-P7067
Synonyms:	rMuEGF; Pro-epidermal growth factor; Urogastrone
Species:	Mouse
Source:	E. coli
Accession:	P01132 (N977-R1029)
Gene ID:	13645
Molecular Weight:	Approximately 6.2 kDa

PROPERTIES

AA Sequence	M 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
Biological Activity	The ED_{50} is <0.1 ng/mL as measured by BALB/c 3T3 cells, corresponding to a specific activity of >1.0×10^7 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Epidermal growth factor (EGF) binds to epidermal growth factor receptor and stimulates an intracellular signal transduction cascade, leading to activation of genes that regulate cell proliferation, angiogenesis, motility, and metastasis[1]. Epidermal growth factor (EGF) is initially synthesized as a large precursor of 1217 amino acids that is glycosylated and can be secreted by cells. Epidermal growth factor (EGF) mRNA and protein are expressed in a number of adult tissues, especially in epithelial cells in the gastrointestinal tract. Predominant sites of synthesis of this peptide are the submandibular glands, the Brunner glands in the small intestine and the kidney[2].

REFERENCES

[1]. Hynes NE, et al. ERBB receptors and cancer: the complexity of targeted inhibitors. Nat Rev Cancer. 2005 May;5(5):341-54.

[2]. Salomon DS, et al. Epidermal growth factor-related peptides and their receptors in human malignancies. Crit Rev Oncol Hematol. 1995 Jul;19(3):183-232.

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