

## Animal-Free EGF Protein, Mouse (His)

Cat. No.:	HY-P70590AF
Synonyms:	Pro-epidermal growth factor; Epidermal growth factor; EGF
Species:	Mouse
Source:	E. coli
Accession:	P01132 (N977-R1029)
Gene ID:	13645
Molecular Weight:	Approximately 6.98 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	Measure by its ability to induce 3T3 cells proliferation. The ED <sub>50</sub> for this effect is <80 pg/mL. The specific activity of recombinant mouse EGF is approximately >1x10 <sup>6</sup> IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
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 <sub>2</sub> 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	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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