

## EGF Protein, Human

Cat. No.:	HY-P7109
Synonyms:	rHuEGF; Pro-epidermal growth factor; Urogastrone
Species:	Human
Source:	E. coli
Accession:	P01133 (N971-R1023)
Gene ID:	1950
Molecular Weight:	Approximately 6.2 kDa

### PROPERTIES

AA Sequence	M N S D S E C P L S    H D G Y C L H D G V    C M Y I E A L D K Y    A C N C V V G Y I G E R C Q Y R D L K W    W E L R
Biological Activity	The ED <sub>50</sub> is <0.2 ng/mL as measured by murine BALB/c 3T3 cells, corresponding to a specific activity of 5.0 × 10 <sup>6</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 10mM Phosphate buffer, pH 7.0, 200 mM NaCl buffer.
Endotoxin Level	<0.2 EU/μg, determined by 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. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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	Recombinant Human Epidermal Growth Factor is chemically identical to the natural material, exhibits full biological activity and is used in wound healing applications <sup>[1]</sup> . Recombinant Human Epidermal Growth Factor (rhEGF) stimulates proliferation of the fibroblast BALB/c3T3 cell line. Recombinant Human Epidermal Growth Factor released from hydrogels keeps its bioactivity, induces EGF receptor expression, causes proliferating cell nuclear antigen and shows therapeutic potential in enhancing diabetic wound healing <sup>[2]</sup> .
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### REFERENCES

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[1]. Wong WR, et al. Applications, and efficient large-scale production, of recombinant human epidermal growth factor. *Biotechnol Genet Eng Rev.* 2001;18:51-71.

[2]. Lao G, et al. Controlled release of epidermal growth factor from hydrogels accelerates wound healing in diabetic rats. *J Am Podiatr Med Assoc.* 2012 Mar-Apr;102(2):89-98.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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