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:	6-12 kDa

PROPERTIES

AA Sequence	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	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED_{50} for this effect is ≤450 pg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 10 mM Phosphate buffer, pH 7.0, 200 mM NaCl buffer or 20 mM PB, 150 mM NaCl, pH 7.4 or 20 mM Tris, 200 mM NaCl, pH 8.0.
Endotoxin Level	<1 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. 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 ued in wound healing applications[1]. 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[2].

REFERENCES

[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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