

EGF Protein, Rat (CHO)

Cat. No.:	HY-P7092A
Synonyms:	rRtEGF; Pro-epidermal growth factor; Urogastrone
Species:	Rat
Source:	CHO
Accession:	P07522 (N974-R1026)
Gene ID:	25313
Molecular Weight:	Approximately 6 kDa

PROPERTIES

AA Sequence	M N S N T G C P P S Y D G Y C L N G G V C M Y V E S V D R Y V C N C V I G Y I G E R C Q H R D L R W W K L R
Biological Activity	The ED ₅₀ is <0.1 ng/mL as measured by 3T3 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
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 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	Epidermal Growth Factor is secreted by epithelial cells, promotes epithelial proliferation and migration in a variety of tissues, and increases epithelial wound closure and shortens healing time ^[1] . Epidermal Growth Factor plays a key role in skin development and homeostasis, shows a protective function in the epidermal barrier. Epidermal Growth Factor also displays an immunomodulatory activity in the inflamed skin tissue ^[2] .
------------	---

REFERENCES

[1]. Palencia L, et al. Epidermal growth factor mediated healing in stem cell-derived vocal fold mucosa. J Surg Res. 2015 Jul;197(1):32-8.

[2]. Choi SY, et al. Epidermal Growth Factor Relieves Inflammatory Signals in Staphylococcus aureus-Treated Human Epidermal Keratinocytes and Atopic Dermatitis-Like Skin Lesions in Nc/Nga Mice. Biomed Res Int. 2018 May 15;2018:9439182.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA