

EGF Protein, Canine (P.pastoris)

Cat. No.:	HY-P72980
Synonyms:	Pro-epidermal growth factor; Urogastrone; EGF; HOMG4
Species:	Canine
Source:	P. pastoris
Accession:	Q9BEA0 (N973-R1024)
Gene ID:	403657
Molecular Weight:	Approximately 6.2 kDa

PROPERTIES

AA Sequence	N G Y R E C P S S Y D G Y C L Y N G V C M Y I E A V D R Y A C N C V F G Y V G E R C Q H R D L K W E L R
Biological Activity	Measured in a cell proliferation assay using Balb 3T3 mouse embryonic fibroblasts. The ED ₅₀ for this effect is typically 0.1-0.6 ng/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>Epidermal Growth Factor (EGF) is a potent stimulator of growth for various epidermal and epithelial tissues both in vivo and in vitro, as well as some fibroblasts in cell culture. This multifunctional protein plays a vital role in cellular processes, particularly in promoting the proliferation and development of tissues. Beyond its role in tissue growth, EGF acts as a magnesiotropic hormone, facilitating magnesium reabsorption in the renal distal convoluted tubule through the engagement of EGFR and activation of the magnesium channel TRPM6. Additionally, EGF interacts with EGFR, promoting EGFR dimerization, and engages with RHBDF1 and RHBDF2, potentially influencing EGF's intracellular trafficking and degradation pathways. These interactions underline the complex and versatile functions of EGF in both growth and</p>
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signaling processes within the cell.

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