

Active Recombinant Human EGF Protein (Asn971-Arg1023), C-His tagged, Animal-free, Carrier-free

Cat. No. EGF-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF Protein (Asn971-Arg1023) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Asn971-Arg1023
Description	Human epidermal Growth Factors (EGF) is a 6 kDa cytokine with 53 amino acid residues. EGF is mainly secreted from ectodermal cells, monocytes, kidney and duodenal glands. Upon binding to its receptor, EGFR, EGF acts to stimulate cell growth and proliferation of epithelial cells, play important roles in many developmental processes including accelerate tooth eruption, inhibits gastric acid secretion, and involve in wound healing.
Form	Lyophilized
Bio-activity	Measure by its ability to induce 3T3 cells proliferation. The ED50 for this effect is < 1.0 ng/mL. The specific activity of recombinant human EGF is approximately $>1.0 \times 10^6$ IU/mg.
Molecular Mass	The protein has a calculated MW of 7.16 kDa. The protein migrates as 9-11 kDa under reducing condition (SDS-PAGE analysis).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens (human)]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;
Gene ID	1950
mRNA Refseq	NM_001178130

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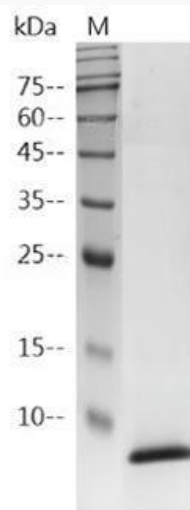
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Protein Refseq NP_001171601

MIM 131530

UniProt ID P01133

**SDS-PAGE analysis
of recombinant
human EGF.**



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