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Recombinant human EGF protein (Qk011)

Type: Stem cells

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

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Product Information

Human epidermal growth factor (EGF) protein is a potent EGF-family growth factor used in many human and mouse organoid and stem cell culture systems including intestinal and tumor organoid culture. EGF is also used in epithelial cell culture.

Qkine human EGF is a highly pure, animal origin-free, bioactive 6.3 kDa recombinant protein, making it ideal for use in chemically defined induced pluripotent stem cell (iPSC), embryonic stem cell (ESC) and organoid culture media.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

Epidermal growth factor, Pro-epidermal growth factor, HOMG4, Beta-urogastrone, Urogastrone (URG), Qk11

Molecular weight

6.3 kDa

Protein Uniprot number

High purity human EGF protein (residues 971-1023, Uniprot: P01133)

Species reactivity

- human
- species similarity:

- mouse - 74%
- rat - 74%
- porcine - 85%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Tumor organoid culture
- Growth and proliferation of chondrocytes, fibroblasts and primary cells
- Epithelial organoid culture

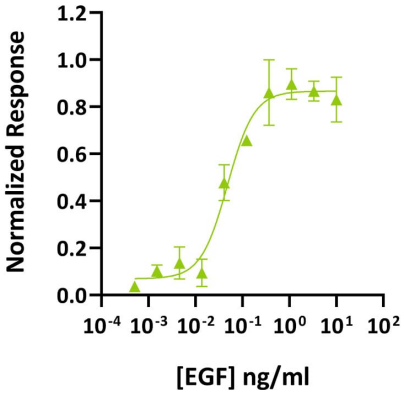
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

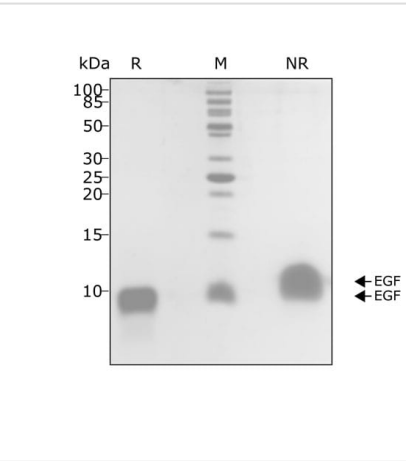
Bioactivity

EGF activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells. Cells are treated in triplicate with a serial dilution of EGF for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. EC50 = 72.8 pg/ml (11.6 pM). Data from Qk011 lot #10.



Purity

EGF protein migrates as a single band at ~12 kDa in non-reducing (NR) and 9 kDa in reducing (R) conditions. Purified recombinant protein (7 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk011 lot #011.



Original product page: https://qkine.com/product/recombinant-human-egf-protein/

PDF generated: 14 October 2026

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