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# Recombinant mouse EGF protein (Qk066)




**Type:** Stem cells

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

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## Product Information

Epidermal growth factor (EGF), a member of the EGF family of proteins, plays a significant role in regulating cellular processes such as cell growth, proliferation, differentiation, development, and tissue homeostasis. It is an essential growth factor in many stem cell and organoid culture media. In cell culture, mouse EGF is crucial for stem cell maintenance, proliferation, differentiation, organoid culture growth and survival. It is also widely used for disease modelling, drug screening, tissue engineering, and regenerative medicine. Overall, EGF is a key player in cellular regulation and functions.

Mouse EGF is a high purity protein with a molecular weight of 6.1 kDa, animal origin-free, carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. Qkine mouse EGF is suitable for the culture of reproducible and high-quality stem cells and various tissue-specific organoids.

### Alternative protein names

Urogastrone, URG, HOMG4, beta-urogastrone, pro-epidermal growth factor, Epidermal growth factor (beta-urogastrone), Qk66

### Molecular weight

6.1 kDa (monomer)

### Protein Uniprot number

High purity mouse protein (Uniprot number: P01132)

### Species reactivity

- mouse

## 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

- Neural stem cell proliferation and neuronal differentiation
- Stem cell expansion and maintenance
- Organoid growth and proliferation
- Cellular proliferation, migration and survival
- Wound healing and tissue repair

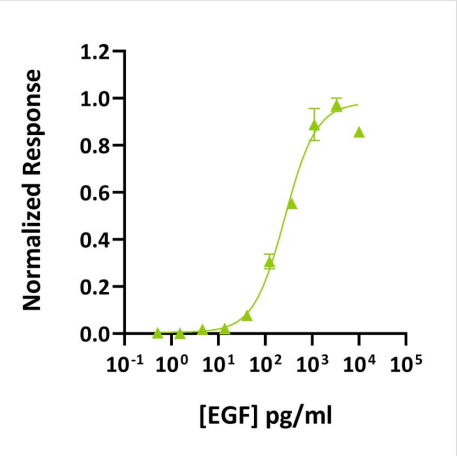
## Further quality assays

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

## Scientific Information

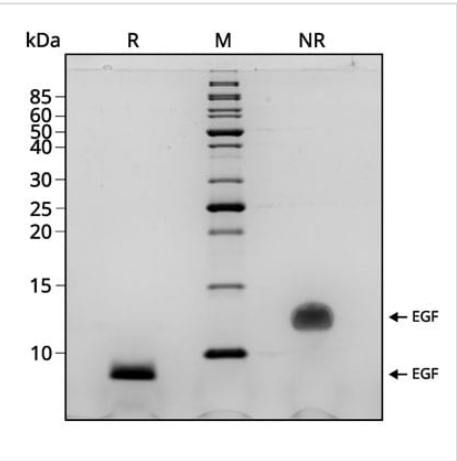
### Bioactivity

Recombinant mouse EGF (mEGF) activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells. Cells were treated in triplicate with a serial dilution of mEGF for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 263 pg/ml (42 pM). Data from Qk066 lot #204608.




### Purity

Recombinant mouse EGF migrates as a major band at approximately 6 kDa in reduced (R) and at approximately 12 kDa in non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 18% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk066 lot #204608.




**Original product page:** https://qkine.com/product/recombinant-mouse-egf-protein-qk066/

**PDF generated:** 12 October 2026

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