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Recombinant porcine EGF protein (Qk064)

Type: Stem cells

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

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Product Information

Porcine EGF is an essential growth factor belonging to the epidermal growth factor family that stimulates the proliferation and differentiation of cells. It is used for the differentiation of induced pluripotent stem cells (iPSCs) and embryonic stem cells (ESCs) towards epithelial, neural, mesoderm and hematopoietic lineages. Porcine EGF is becoming rapidly adopted as a species-specific growth factor in the cultivated meat sector. Porcine EGF is also an essential component of many organoid media supporting the culture and differentiation of a wide variety of organoids including intestine and liver organoids.

Porcine EGF has a molecular weight of 6.3 kDa. This protein is animal origin-free, carrier protein-free, His-tag-free and non-glycosylated to ensure a pure recombinant protein with exceptional lot-to-lot consistency.

Alternative protein names

Epidermal growth factor, EGF, pEGF, Porcine epidermal growth factor, Urogastrone, URG, HOMG4, beta-urogastrone, pro-epidermal growth factor, Epidermal growth factor (beta-urogastrone), Qk64

Molecular weight

6.3 kDa (monomer)

Protein Uniprot number

High purity porcine EGF protein (Uniprot: Q00968)

Species reactivity

- porcine

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

- Cellular agriculture process development
- Inclusion in cultivated meat media
- Culture of porcine (pig) muscle stem cells
- Culture of porcine (pig) organoids
- Differentiation of iPSCs into epithelial cells

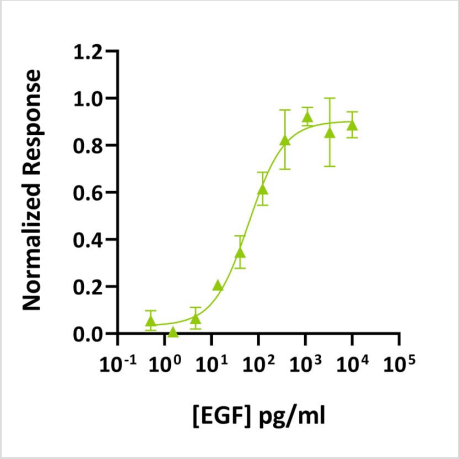
Further quality assays

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

Scientific Information

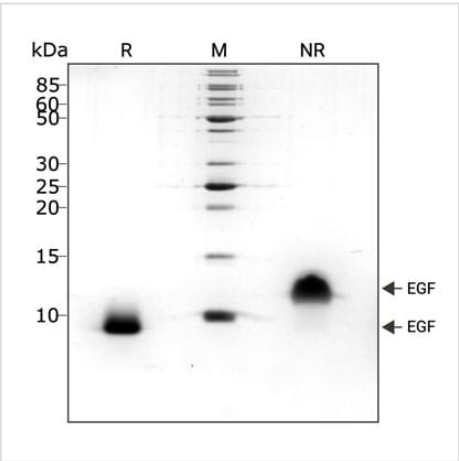
Bioactivity

Porcine EGF activity was determined using the Promega serum response element (SRE) luciferase reporter assay in transfected HEK293T cells. Cells were treated in triplicate with a serial dilution of pEGF for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. EC50 of 64 pg/ml (10.2 pM). Data from Qk064 lot #204515.



Purity

Recombinant pEGF migrates as a single band at approximately 13 kDa (monomer) in non-reducing (NR) conditions and an approximately 6 kDa band upon reduction. No contaminating protein bands are present. Purified recombinant protein (3 µg) was resolved using 18% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk064 lot #204515.



Original product page: https://qkine.com/product/recombinant-porcine-egf-protein-qk064/

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