

Recombinant human KGF (FGF-7) protein (Qk046)



Type: Stem cells

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

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Product Information

Human KGF protein (FGF-7) is a member of the [FGF family](#). Recombinant KGF protein is used in the culture of lung, breast, liver, and bladder [organoids](#).

Qkine human KGF (FGF-7) is a highly pure and bioactive 19 kDa protein, [animal-origin free](#) (AOF) and carrier-protein free (CF).

Qkine KGF (FGF-7) is also available as [cell therapy grade](#) with extended quality testing and documentation - [Qk046-CTG](#)

Alternative protein names

Fibroblast growth factor 7, Keratinocyte growth factor, KGF, Keratinocyte growth factor 1, KGF1 HBGF-7, Heparin-binding growth factor 7, FGF7, FGF 7, Qk46

Molecular weight

19 kDa

Protein Uniprot number

High purity KGF (FGF-7) protein (Uniprot: P21781)

Species reactivity

- human

- species similarity:
- mouse - 96%
- rat - 92%
- bovine - 98%
- porcine - 96%
- Active across species

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 HEPES, NaCl, mannitol

Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

Featured applications

- Airway, mammary, liver hepatocyte, and urothelium organoids

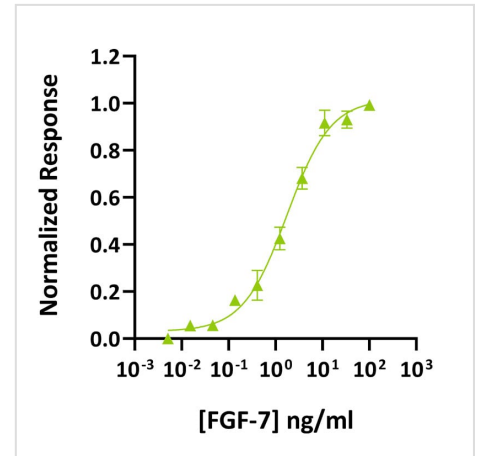
Further quality assays

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

Scientific Information

Bioactivity

KGF (FGF-7) activity was determined using the Promega serum response element luciferase reporter assay in transfected MCF-7 cells. Cells were treated in triplicate with a serial dilution of KGF for 4 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 1.75 ng/ml (92 pM). Data from Qk046 lot #104314.



Purity

KGF migrates as a monomer at 19 kDa and a dimer at 38 kDa in non-reducing (NR) conditions and 19 kDa upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk046 lot #104314.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-kgf-fgf7-protein-qk046/>

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