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



Type: Cell Therapy Grade

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 cell therapy grade high purity animal origin-free proteins are manufactured as GMP grade equivalents in an ISO 9001:2015-certified facility, under ISO 20399:2022 standards with GMP compliance, defined quality criteria and documentation.

This product is available to order now and will be in stock soon, please contact us for the estimated lead time customerservice@qkine.com

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

- Certified animal origin-free (AOF)
- Cell and gene therapy grade
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lot-to-lot consistency in bioactivity
- Full traceability and documentation
- Carrier protein-free, tag free
- Expressed in *E. coli*
- Lyophilized from PBS

Reconstitution instructions

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

Featured applications

- Regenerative stem cell therapy

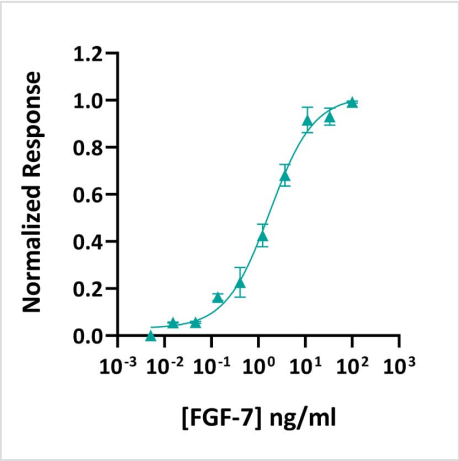
Further quality assays

- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative
- Endotoxin: <0.05 EU/µg protein
- Residual host cell protein <10 ng/µg
- Residual host cell DNA <10 ng/µg
- N-terminal sequence analysis

Scientific Information

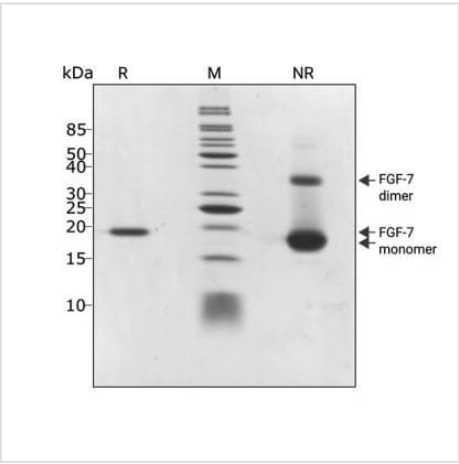
Bioactivity

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-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk046 lot #104314.



Original product page: https://qkine.com/product/recombinant-human-kgf-fgf-7-protein-qk046-ctg/

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