

Recombinant human FGF-18 protein (Qk069)



Type: Stem cells

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

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Product Information

Fibroblast growth factor 18 (FGF-18), a member of the [FGF family](#), characterized by its heparin-binding properties plays a significant role in regulating diverse biological processes such as embryonic development, skeletal and bone development, cartilage maintenance, angiogenesis and tissue repair. In cell culture, FGF-18 is widely used to support cell culture maintenance and proliferation, promote chondrogenic and osteogenic differentiation of stem cells, stimulate angiogenesis, and enhance tissue regeneration.

FGF-18 is a high purity truncated protein with a molecular weight of 20.2 kDa. This protein is [animal origin-free](#), carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. Qkine fibroblast growth factor 18 is suitable for the culture of reproducible and high-quality stem cells, primary cells and other relevant cells.

This protein is also available as GMP compliant [Cell Therapy Grade](#), to enquire email ryan.weber@matriq.com.

Alternative protein names

zFGF5, Fibroblast growth factor 18, FGF18, FGF 18, Qk69

Molecular weight

20.2 kDa (monomer)

Protein Uniprot number

High purity human protein (Uniprot number: O76093)

Species reactivity

- human
- species similarity:
- mouse - 98%
- rat - 98%
- bovine - 98%
- porcine - 98%

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 Tris, NaCl

Reconstitution instructions

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

Featured applications

- Growth and proliferation of chondrocytes, fibroblasts and primary cells
- Expansion of induced pluripotent, embryonic and mesenchymal stem cells
- Directed chondrogenic differentiation of mesenchymal stem cells
- Directed osteogenic differentiation of mesenchymal stem cells
- Stimulation of angiogenesis and vascular network development
- Induction of cell migration, proliferation and extracellular matrix production

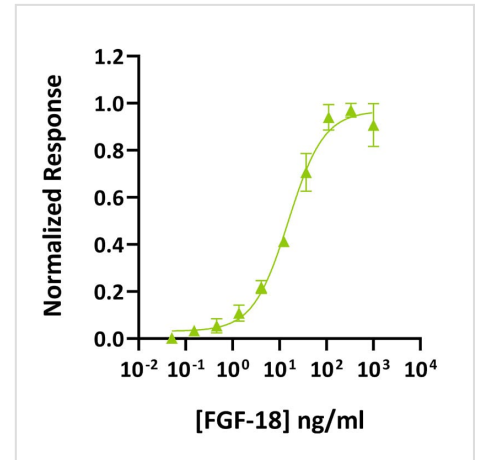
Further quality assays

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

Scientific Information

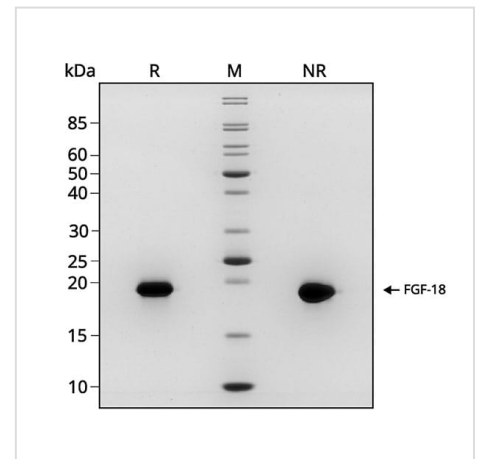
Bioactivity

Recombinant FGF-18 activity was determined using FGF-18-responsive luciferase assay. Transfected HEK293 cells were treated in triplicate with a serial dilution of FGF-18 for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk069 lot 204634. EC50 = 15.5 ng/ml (0.77 nM)



Purity

Recombinant FGF-18 migrates as a band at approximately 20 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. No contaminating protein bands are present. The 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 Qk069 lot #204634.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-fgf-18-protein-qk069/>

PDF generated: 12 May 2026

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