

## Recombinant human FGF-1 protein (Qk071)



**Type:** Stem cells

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

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### Product Information

Fibroblast Growth Factor 1 (FGF-1) can stimulate growth and differentiation of endothelial and epithelial cells and the development of [organoids](#). FGF-1 can also be used for the maintenance of oligodendrocytes and astroglia as well as bone marrow-derived mesenchymal and [hematopoietic](#) stem cells.

Qkine human FGF-1 has a molecular weight of 15.9 kDa. This protein is [animal origin-free](#), carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. Qk071 is suitable for the culture of reproducible mesenchymal, endothelial, hematopoietic, glial, and other relevant cells.

**This protein is also available as GMP compliant [Cell Therapy Grade](#), to enquire email [support@qkine.com](mailto:support@qkine.com).**

### Alternative protein names

Acidic fibroblast growth factor, aFGF, Endothelial cell growth factor, ECGF, Heparin-binding growth factor 1, HBGF-1, FGF1, FGF 1, Qk71

### Molecular weight

15.9 kDa (monomer)

### Protein Uniprot number

High purity human protein (Uniprot number: P05230)

### Species reactivity

- human
- species similarity:
- mouse - 96%
- rat - 96%
- bovine - 92%
- porcine - 97%

### **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, CyS

### **Reconstitution instructions**

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

### **Featured applications**

- Epithelial organoid culture
- Differentiation of iPSCs into epithelial cells
- Mesenchymal stem cell research
- Organoid growth and proliferation
- Differentiation of neural progenitor cells into oligodendrocyte precursor cells
- Maintenance and differentiation of hematopoietic stem cells

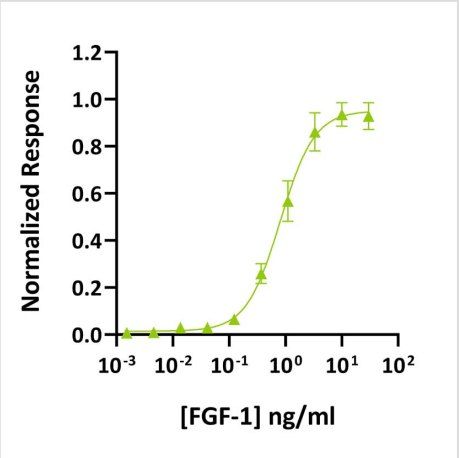
### **Further quality assays**

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

# Scientific Information

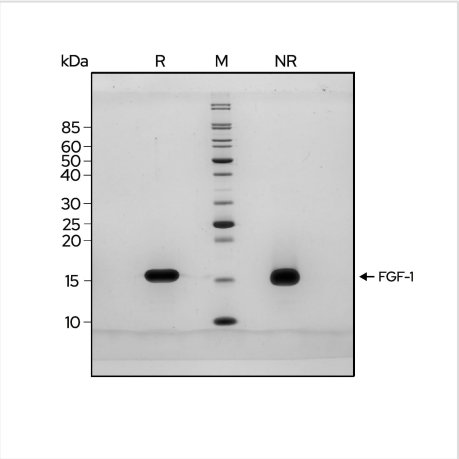
## Bioactivity

FGF-1 activity was determined using the FGF-1-responsive firefly luciferase reporter assay. HEK293T cells were treated in triplicate with a serial dilution of FGF-1 for 3 hours. Firefly luciferase activity was measured and normalised to the control Renilla luciferase activity. EC50 = 0.81 ng/ml (51 pM). Data from Qk071 lot #204543.



## Purity

Recombinant FGF-1 migrates as a major band at approximately 15.97 kDa in non-reduced (NR) and reduced (R) 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 Qk071 batch #204543.



Original product page: <https://qkine.com/product/recombinant-human-fgf-1-protein-qk071/>

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