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Recombinant human FGF-4 protein (Qk004)



Type: Stem cells

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

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Product Information

Human fibroblast growth factor 4 (FGF-4) protein is used for the proliferation and differentiation of embryonic and induced-pluripotent and tissue (mesenchymal) stem cells and promotes neural stem cell proliferation. Recombinant FGF-4 is an important component of cardiac, intestinal and other organoid culture media.

High purity and bioactivity 14 kDa, bioactive domain of human FGF-4, animal origin-free (AOF) and carrier-protein free.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

Fibroblast Growth Factor-4, Kaposi's sarcoma-associated FGF, k-FGF, Heparin secretory-transforming protein 1 HST-1, Transforming protein KS3, Heparin-binding growth factor 4, HBGF-4, FGF4 FGF 4, Qk4, Qk04

Molecular weight

14 kDa

Protein Uniprot number

High purity human FGF-4 protein (residues 79-206, Uniprot: P08620)

Species reactivity

- human

- species similarity:
- mouse - 91%
- rat - 80%
- bovine - 90%
- porcine - 91%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from HEPES, NaCl, mannitol

Reconstitution instructions

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

Featured applications

- Hindgut organoids from iPSC-derived human posterior gut endoderm cells
- Neural stem cell proliferation and neuronal differentiation

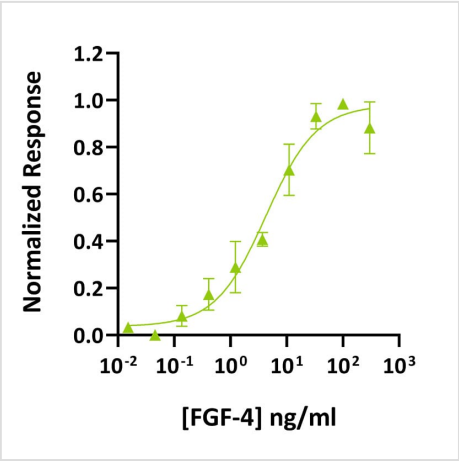
Further quality assays

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

Scientific Information

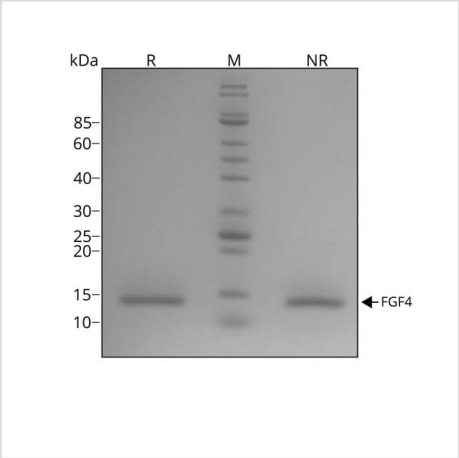
Bioactivity

FGF-4 activity was determined using the firefly luciferase reporter assay in stably transfected HEK293T cells. Cells are treated in triplicate with a serial dilution of FGF-4. Firefly luciferase activity is measured and normalized. EC50 = 4.3 ng/ml (306.5 pM). Data from Qk004 lot #104330.



Purity

Recombinant human FGF-4 protein migrates as a single band at 14 kDa in non-reducing conditions (NR) and upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (7 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk004 lot #010.



Original product page: https://qkine.com/product/recombinant-human-fgf-4-protein-qk004/

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