

Recombinant rat FGF-10 protein (Qk016)



Type: Stem cells

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

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Product Information

Fibroblast growth factor 10 (FGF-10) protein promotes lung [organoid](#) formation and induces branching morphology. FGF-10 protein is used widely in organoid culture, embryonic stem cell (ESC) and induced-pluripotent stem cell (iPSC) differentiation, and for the study of epithelial to mesenchymal transition (EMT) and tumor metastasis.

Qkine recombinant rat FGF-10 is a high purity and bioactivity 17 kDa bioactive domain of FGF-10, [animal origin-free](#) (AOF) and carrier-protein free (CF).

Alternative protein names

Fibroblast Growth Factor 10, FGFA, KGF2, Keratinocyte growth factor 2, FGF10, FGF 10, Qk16

Molecular weight

17 kDa

Protein Uniprot number

High purity truncated FGF-10 protein (Uniprot: P70492)

Species reactivity

- rat
- species similarity:
- human - 100%

- mouse - 94%
- bovine - 99%
- porcine - 99%

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

- Differentiation of embryonic stem cells into gut-like structures, cardiomyocytes and hepatocytes
- Epithelial to mesenchymal transition

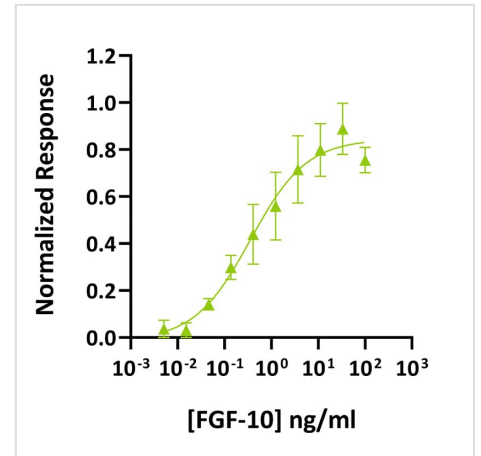
Further quality assays

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

Scientific Information

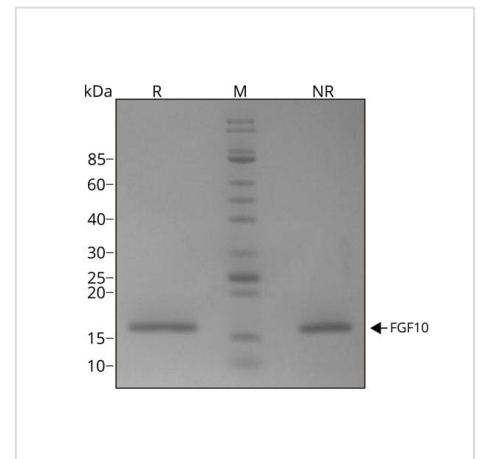
Bioactivity

FGF-10 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-10. Firefly luciferase activity is measured and normalized. EC50 = 0.36 ng/ml (21.1 pM). Data from lot #104403.



Purity

FGF-10 migrates as a single band at 17 kDa in non-reducing (NR) conditions and upon reduction (R). No contaminating protein bands are visible. Purified recombinant FGF-10 protein (7 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from lot #010.



Original product page: <https://qkine.com/product/recombinant-rat-fgf-10-protein-qk016/>

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