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Recombinant mouse FGF-2 protein (Qk042)



Type: Stem cells

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

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Product Information

Recombinant mouse FGF-2 protein/bFGF is an important factor in the maintenance of mouse epiblast-derived stem cells (EpiSC). FGF-2 protein is used to support the maintenance of embryonic stem cells and proliferation and differentiation of mouse induced pluripotent and mesenchymal stem cells.

Qkine mouse FGF-2 is a high purity and bioactivity 16 kDa protein, animal-origin free (AOF) and carrier-protein free (CF).

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, Fibroblast growth factor-basic, HBGF-2, beta FGF, betaFGF, FGF 2, Qk42

Molecular weight

16 kDa

Protein Uniprot number

High purity mouse FGF-2 protein comprising longer structured 154 aa region, residues 135-288 (Uniprot: P09038)

Species reactivity

- mouse

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

- Stem cell expansion and maintenance
- Primary cell culture

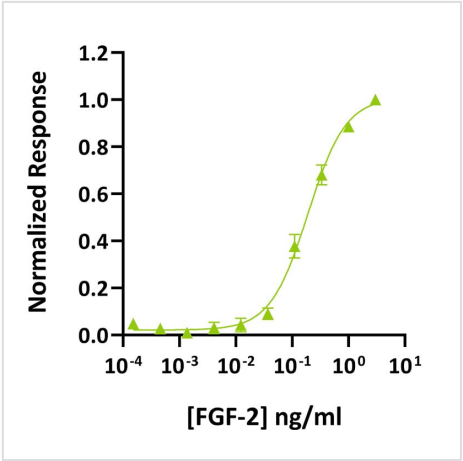
Further quality assays

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

Scientific Information

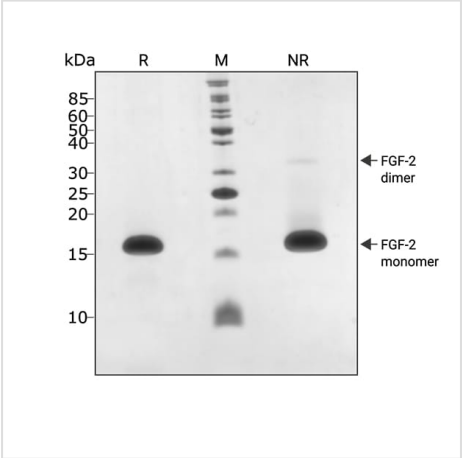
Bioactivity

Mouse FGF-2 activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells. Cells were treated in triplicate with a serial dilution of mouse FGF-2 (Qk042) for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk042 lot #204553. EC50 = 191 ng/ml (11.8 nM).



Purity

Recombinant mouse FGF-2 protein migrates as predominantly as a single band at 16 kDa in non-reducing (NR) conditions, although a small amount of dimer can be seen. Upon reduction (R), only the 16 kDa band is visible. 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 Qk042 lot #104309.



Original product page: https://qkine.com/product/recombinant-mouse-fgf2-protein-qk042/

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