

Recombinant human FGF-2 (154 aa) protein (Qk027)



Type: Stem cells

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

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Product Information

Recombinant human fibroblast growth factor 2 (FGF-2) protein (154 aa) is a highly bioactive, long-form of FGF-2/bFGF protein. FGF-2 protein is used to support the maintenance of human [embryonic stem cells](#) and proliferation and differentiation of induced pluripotent and mesenchymal stem cells. This 154 aa form of FGF-2 comprises the core structured region and N-terminal extension.

Highly pure and bioactive 17 kDa FGF-2 / bFGF protein, [animal origin-free](#) (AOF) and carrier protein-free (CF).

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

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, Fibroblast growth factor-basic, HBGF-2, beta FGF, betaFGF, FGF 2, Qk27

Molecular weight

17 kDa

Protein Uniprot number

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

Species reactivity

- human

- species similarity:
- mouse - 94%
- rat - 97%
- 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 Tris, NaCl, CyS, mannitol

Reconstitution instructions

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

Featured applications

- Induced pluripotent and embryonic stem cell differentiation and maintenance

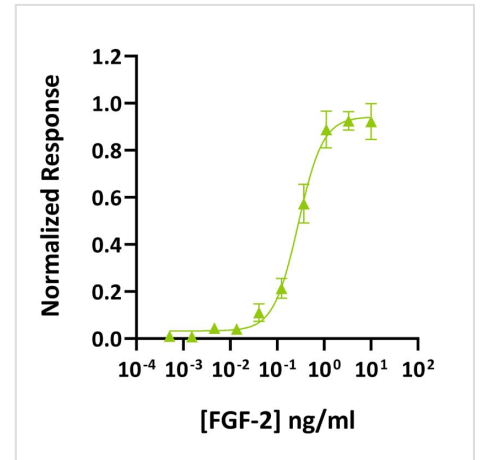
Further quality assays

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

Scientific Information

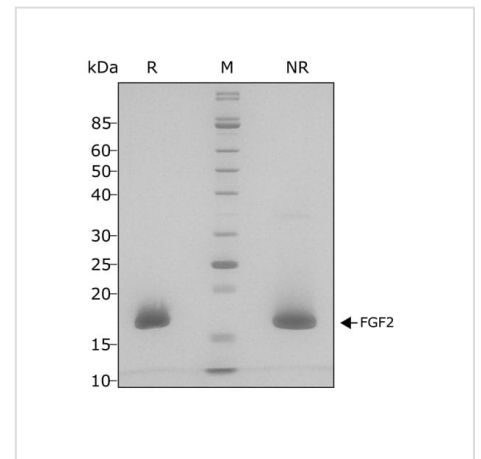
Bioactivity

FGF-2 154 aa 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 FGF-2 for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk027 lot #204659. EC50 = 0.28 ng/ml (17 pM).



Purity

FGF-2 migrates as major band at 17 kDa in non-reducing conditions and upon reduction. Purified recombinant 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 Qk027 lot #010.



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-fgf2-protein-154-aa/>

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