

Recombinant human FGF-2 (145 aa) protein (Qk025)



Type: Stem cells

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

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Product Information

Human fibroblast growth factor 2 (FGF-2/bFGF) protein (145 aa) is our gold-standard and recommended FGF-2 / bFGF protein for induced pluripotent stem cell ([iPSC](#)) and embryonic stem cell (ESC) maintenance, and iPSC and mesenchymal stem cell (MSC) proliferation and differentiation.

Highly pure and bioactive 17 kDa FGF-2 protein [animal origin-free](#) (AOF) and carrier protein-free (CF) comprising the core structured region (145 aa) sufficient for full biological activity.

Qkine FGF-2 is also available as [cell therapy grade](#) with extended quality testing and documentation - [Qk025-CTG](#)

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, Fibroblast growth factor-basic, HBGF-2, betaFGF, beta FGF, FGF 2, Qk25

Molecular weight

17 kDa

Protein Uniprot number

High purity human FGF-2 / basic FGF, 145 aa form comprising residues 144-288 (Uniprot: P09038)

Species reactivity

- human

- species similarity:
- mouse - 97%
- 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

- Expansion of induced pluripotent, embryonic and mesenchymal stem cells

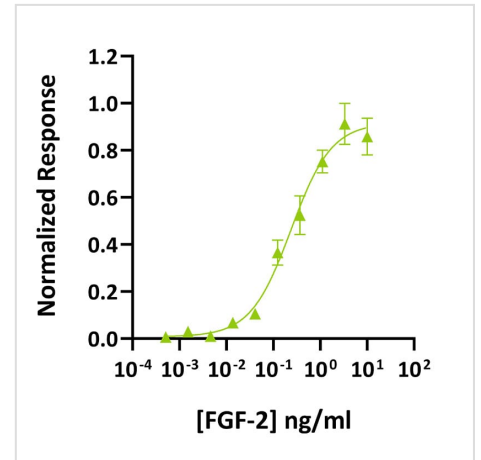
Further quality assays

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

Scientific Information

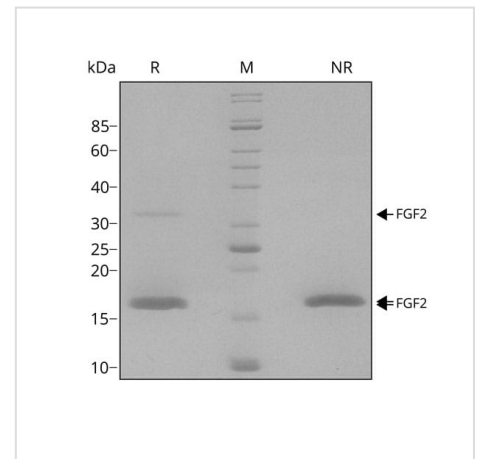
Bioactivity

FGF-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 FGF-2 for 6 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. Data from Qk025 lot #204706. EC50 = 0.24 ng/ml (14 pM).



Purity

FGF-2 migrates as major band at 17 kDa in non-reducing (-βME) conditions and upon reduction (+βME). The higher molecular mass band at 35 kDa is a dimer that we always see in our highly purified human FGF-2, the presence of this does not affect biological activity. 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 Qk025 lot #014



Original product page: <https://ryan.calliope-alpha.ts.net/product/recombinant-human-fgf2-protein-145-aa/>

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