orders@qkine.com
support@qkine.com

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



Type: Stem cells

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

Buy online with secure credit card or purchase order.
View this product and buy online

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

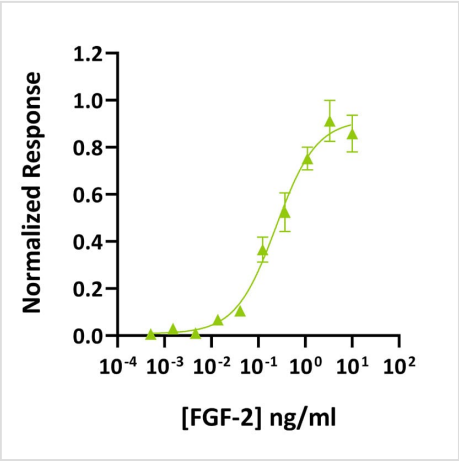
Further quality assays

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

Scientific Information

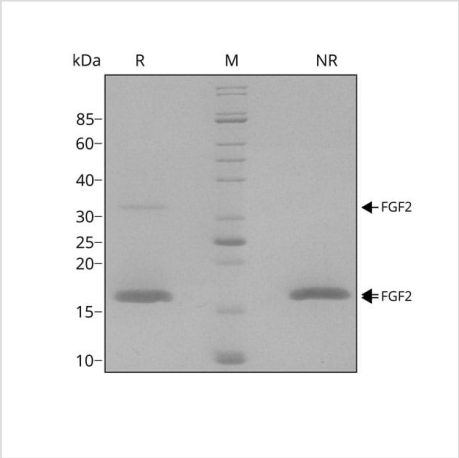
Bioactivity

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-mercaptothanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk025 lot #014



Original product page: https://qkine.com/product/recombinant-human-fgf2-protein-145-aa/

PDF generated: 25 November 2026

Copyright © 2026 by Qkine Ltd. All rights reserved including graphics and images.