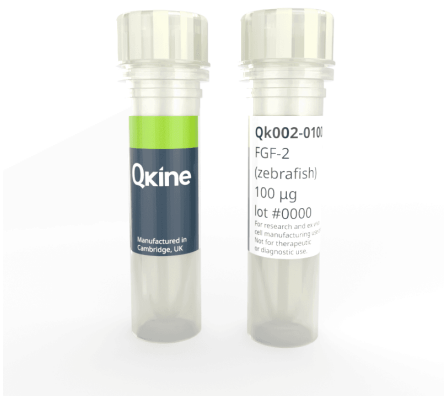
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Recombinant zebrafish FGF-2 protein (Qk002)



Type: Stem cells

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

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Product Information

Zebrafish fibroblast growth factor 2 (FGF-2/bFGF/basic FGF) has been used extensively to support the maintenance and proliferation of human and mouse induced pluripotent (iPSC) and embryonic stem cells (ESC), used in the original Ludwig et al feeder-free culture of embryonic stem cells protocols.

High purity 17 kDa FGF-2 protein, animal origin-free (AOF) and carrier-protein free (CF). This version of recombinant zebrafish FGF-2 is used by the core facility at the Cambridge Stem Cell Institute, UK and historically by many of the stem cell groups based at University of Cambridge.

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, Fibroblast growth factor-basic, HBGF-2, beta FGF, betaFGF, FGF 2, Qk2, Qk02

Molecular weight

17 kDa

Protein Uniprot number

High purity zebrafish Danio rerio FGF-2/bFGF (residues 2-154, Uniprot: B3DGE3)

Species reactivity

- zebrafish
- cross-reactivity:

- human

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

- Stem cell expansion and maintenance

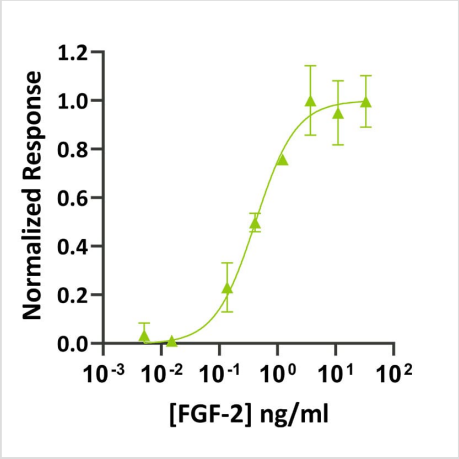
Further quality assays

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

Scientific Information

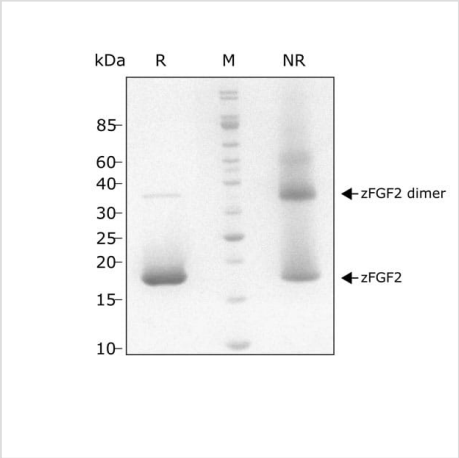
Bioactivity

Zebrafish 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 was measured and normalized to the control Renilla luciferase activity. EC50 = 0.42 ng/ml (24.7 pM). Data are from Qk002 batch #011.



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 zebrafish FGF2 protein, 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 Qk002 lot #011.



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

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