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Recombinant zebrafish FGF-2 protein (Qk116-FG)



Type: Food grade proteins

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) can be used to support the maintenance and proliferation of induced pluripotent (iPSC) and embryonic stem cells (ESC).

Qkine zebrafish FGF-2 is a high quality food grade 17 kDa protein, animal origin-free (AOF) and carrier-protein free (CF).

Alternative protein names

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

Molecular weight

17 kDa

Protein Uniprot number

High purity zebrafish Danio rerio FGF2/bFGF (residues 2-154, Uniprot: B3DGE3)

Species reactivity

- zebrafish

Product Information

- High quality food grade recombinant protein

- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized from Tris, NaCl, CyS, mannitol

Reconstitution instructions

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

Featured applications

- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development

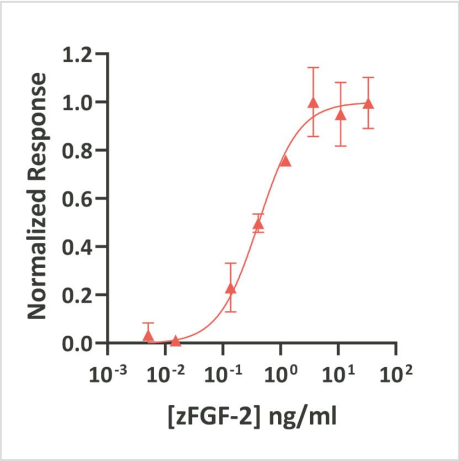
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

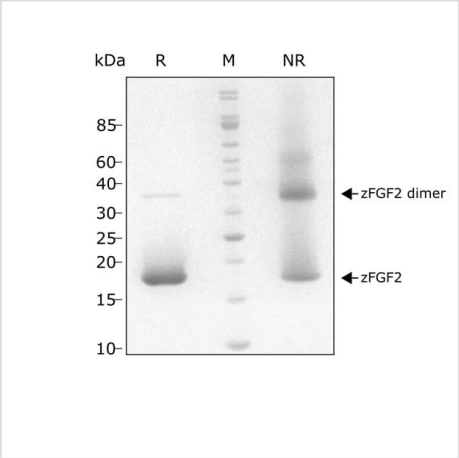
Bioactivity

Zebrafish FGF-2 activity was determined using the Promega serum response element luciferase reporter assay (*) in transfected HEK293T cells. Cells are 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. EC50 = 0.42 ng/ml (24.7 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 FGF-2 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.



Original product page: https://qkine.com/product/recombinant-zebrafish-fgf-2-bfgf-protein-qk116-fg/

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