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Recombinant salmon FGF-2 (145 aa) protein (Qk102)

Type: Stem cells

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

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Product Information

Recombinant salmon FGF-2 protein 145 aa (bFGF/basic FGF) for the development of optimized serum-free culture media for species-specific Atlantic salmon (Salmo salar) in cellular agriculture protocols and veterinary research applications. This shorter form of FGF-2 is used in comparative cell culture media optimization studies alongside Qk103, the 154 aa form of salmon FGF-2 . FGF-2 is used extensively in the maintenance and proliferation of induced pluripotent (iPSC) and embryonic stem cells (ESC) and for enhancement of proliferation in primary salmon cell culture. Receptor binding affinity and efficacy may differ depending on each species. Using a species-specific growth factor enhances receptor binding affinity, resulting in a lower concentration required in culture.

High purity 16.1 kDa salmon FGF-2 / bFGF 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

16.1 kDa (monomer)

Protein Uniprot number

High purity salmon protein (Uniprot number: XP_014067501.1)

Species reactivity

- salmon

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 salmon pluripotent, embryonic and mesenchymal stem cells
- Cellular agriculture and cultivated meat cell culture media optimization
- Serum-free media development
- Cellular proliferation, migration and survival

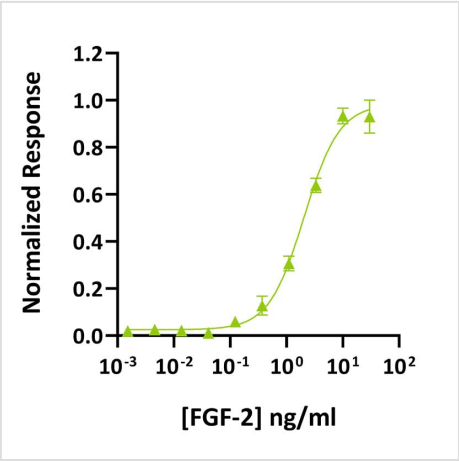
Further quality assays

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

Scientific Information

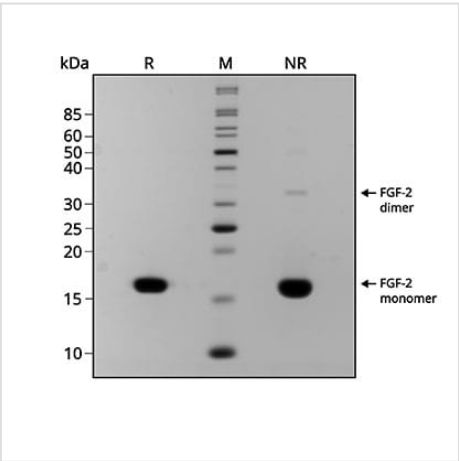
Bioactivity

Recombinant salmon FGF-2 145 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 Qk102 lot 204618. EC50 = 2.06 ng/ml (127 pM) *Promega pGL4.33[*luc2P*/SRE/Hygro] #E1340



Purity

Recombinant salmon FGF-2 145 aa migrates as a major band at approximately 17 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. The dimeric form is also observed at approximately 34 kDa in the non-reduced condition. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk102 lot #204618.



Original product page: https://qkine.com/product/recombinant-salmon-fgf-2-145aa-protein-qk102/

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