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Recombinant tuna FGF-2 (145 aa) protein (Qk104-FG)



Type: Food grade proteins

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

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Product Information

Recombinant tuna FGF-2 protein 145 aa (bFGF/basic FGF) for the development of optimized serum-free culture media for species-specific yellowfin tuna (Thunnus albacares) in cellular agriculture protocols and veterinary research applications. This shorter form of FGF-2 is used in comparative cell culture media optimization studies alongside Qk105-FG, the 154 aa form of tuna 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 tuna 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.

Tuna FGF-2 is a high purity 16.2 kDa 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

16.2 kDa (monomer)

Protein Uniprot number

High purity tuna protein (Uniprot: XP_044218972.1)

Species reactivity

- tuna

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
- Expansion of tuna pluripotent, embryonic and mesenchymal stem cells
- Serum-free media development

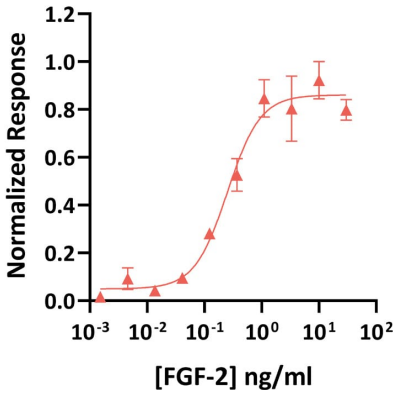
Further quality assays

- 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

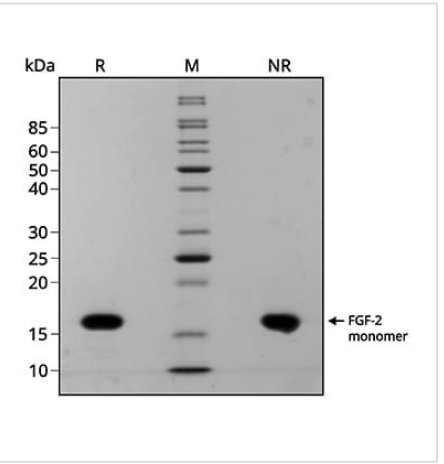
Bioactivity

Recombinant tuna 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 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity EC50 = 0.253 ng/ml (15.6 pM).



Purity

Recombinant tuna FGF-2 145 aa migrates as a major band at approximately 16 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. 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.



Original product page: https://qkine.com/product/recombinant-tuna-fgf-2-145aa-protein-qk104-fg/

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