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Recombinant eel FGF-2 (154 aa) protein (Qk107)



Type: Stem cells

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

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Product Information

Recombinant eel FGF-2 protein 154 aa (bFGF/basic FGF) for the development of optimized serum-free culture media for species-specific European (Anguilla anguilla), Japanese (Anguilla japonica) and American (Anguilla rostrata) eel in cellular agriculture protocols and veterinary research applications. This longer form of FGF-2 is used in comparative cell culture media optimization studies alongside Qk106, the 145 aa form of eel 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 eel 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.

Eel FGF-2 is a high purity 17.2 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

17.3 kDa (monomer)

Protein Uniprot number

High purity protein specific to European (XP_035281190.1), Japanese, and American (XP_064200074) eel

Species reactivity

- eel

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

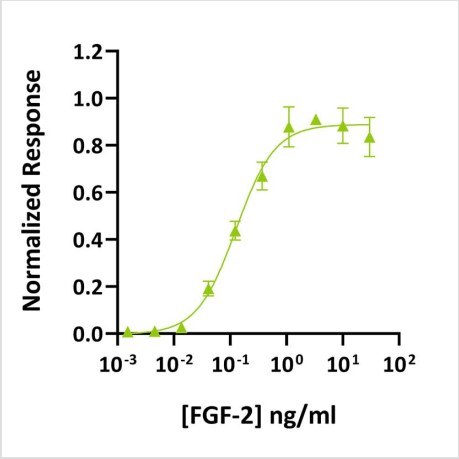
Further quality assays

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

Scientific Information

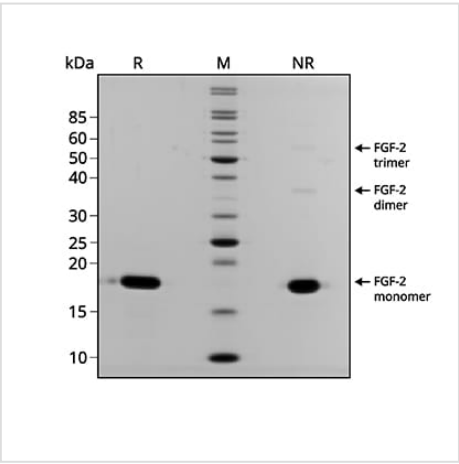
Bioactivity

Recombinant eel FGF-2 154 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. Data from Qk107 lot 204654. EC50 = 0.127 ng/ml (7.5 pM) *Promega pGL4.33[*luc2P*/SRE/Hygro] #E1340



Purity

Recombinant Eel FGF-2 154 aa migrates as a major band at approximately 17 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. The dimeric and trimeric forms are also observed at approximately 34 and 51 kDa, respectively. 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 Qk107 lot #204654.



Original product page: https://qkine.com/product/recombinant-eel-fgf-2-154aa-protein-qk107/

PDF generated: 13 October 2026

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