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Recombinant bovine/porcine FGF-2 (154 aa) protein (Qk056)

Type: Stem cells

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

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Product Information

Recombinant bovine/porcine FGF-2 protein 154 aa (bFGF/basic FGF), this is the long form of FGF-2 used for the development of optimized serum-free culture media for species-specific bovine (cow) and porcine (pig) cultivated meat and veterinary research applications. Used in comparative media optimization studies with bovine/porcine FGF-2 145 aa (Qk040).

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 cell culture.

High purity 16 kDa FGF-2 / bFGF 154 aa protein, animal origin-free (AOF) and carrier-protein free (CF).

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, Fibroblast growth factor-basic, HBGF-2, beta FGF, betaFGF, FGF 2, Qk56

Molecular weight

17.1 kDa

Protein Uniprot number

High purity recombinant bovine/porcine FGF-2 protein (154 aa) / bFGF (Uniprot: P03969)

Species reactivity

- bovine
- porcine

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

- Bovine and porcine primary cell culture
- Bovine and porcine stem cell expansion and maintenance
- Cellular agriculture process development
- Serum-free media development

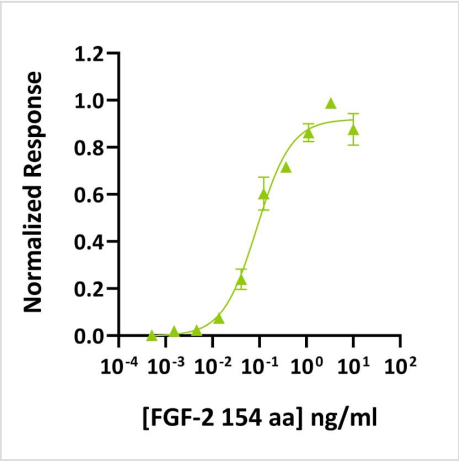
Further quality assays

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

Scientific Information

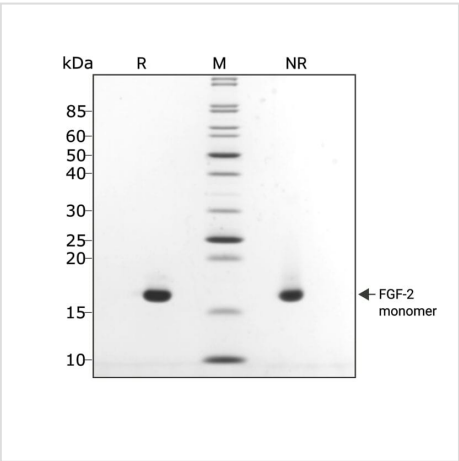
Bioactivity

FGF-2 activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells. EC50 = 85 pg/ml (5 pM). 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 Qk056 lot #104386.



Purity

Recombinant bovine/porcine FGF-2 protein (154 aa) migrates as a single major band at 16 kDa in non-reducing (NR) conditions and some dimeric protein migrating at 32 kDa. Upon reduction (R), only the 16 kDa band is visible. No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk056 batch #104386.



Original product page: https://ryan.calliope-alpha.ts.net/product/recombinant-bovine-porcine-fgf2-154aa-protein-qk056/

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