

Recombinant bovine/porcine FGF-2 (145 aa) protein (Qk040)



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 145 aa (bFGF/basic FGF) for the development of species-specific bovine (cow) and porcine (pig) cellular agriculture protocols and veterinary research applications. Used in comparative cell culture media optimization studies alongside [Qk056](#), the 154 aa form of porcine/bovine 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 cell culture.

Qkine bovine/porcine FGF-2 protein is a high purity 16 kDa 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, Qk40

Molecular weight

16 kDa

Protein Uniprot number

High purity recombinant bovine/porcine FGF-2 protein 145 aa (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

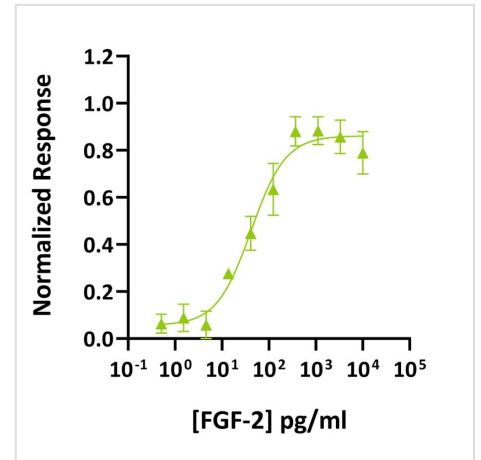
Further quality assays

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

Scientific Information

Bioactivity

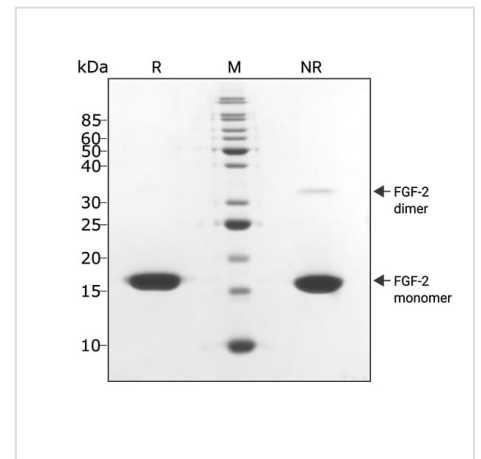
FGF-2 activity was determined using the Promega serum response element luciferase reporter assay in transfected HEK293T cells. EC50 = 160 pg/ml (10 pM). Cells were treated in triplicate with a serial dilution of FGF-2 for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk040 lot #104301.



Purity

Recombinant bovine/porcine FGF-2 protein 145 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-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk040 batch #104301.



Original product page: <https://qkine.com/product/recombinant-bovine-porcine-fgf2-protein-qk040/>

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