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



Type: Food grade proteins

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. Can be used in comparative cell culture media optimization studies alongside Qk056-FG, the 154 aa form of porcine/bovine FGF-2.

Qkine high qualify food recombinant bovine/porcine FGF-2 protein 145 aa 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, FGF 2, Fibroblast growth factor-basic, HBGF-2, betaFGF, beta FGF

Molecular weight

16 kDa

Protein Uniprot number

High purity recombinant bovine/porcine FGF-2 protein 145 aa / bFGF (Uniprot: P03969)

Species reactivity

- bovine

- porcine

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

- Bovine and porcine stem cell expansion and maintenance
- Bovine and porcine primary cell culture
- Culture of porcine (pig) muscle stem cells
- Culture of bovine (cow) muscle stem cells
- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development

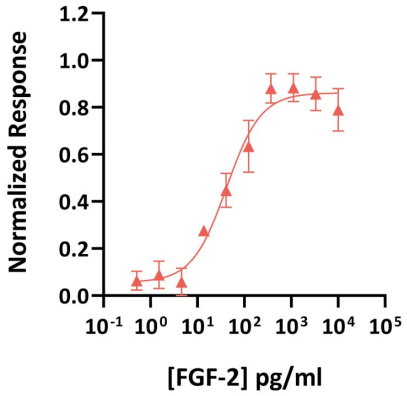
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

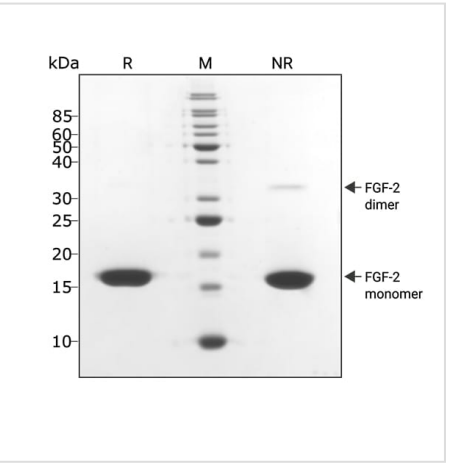
Bioactivity

FGF-2 activity is determined using the Promega serum response element luciferase reporter assay (*) in transfected HEK293T cells. EC50 = 160 pg/ml (10 pM). Cells are treated in triplicate with a serial dilution of FGF-2 for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. Data from Qk040 lot #104301. *Promega pGL4.33[luc2P/SRE/Hygro] #E1340



Purity

Recombinant bovine/porcine FGF-2 protein 145aa 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 Qk040 batch #104301.



Original product page: https://qkine.com/product/recombinant-bovine-porcine-fgf-2-bfgf-145aa-protein-qk040-fg/

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