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Recombinant chicken/duck FGF-2 (145 aa) protein (Qk030-FG)



Type: Food grade proteins

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

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Product Information

Recombinant chicken/duck FGF-2 protein 145 aa (bFGF/basic FGF) for the development of species-specific avian cellular agriculture protocols and veterinary research applications. Used in comparative cell culture media optimization studies for cellular agriculture process development. 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 food grade chicken/duck FGF-2 protein is a high purity 1 6 kDa protein, animal origin-free (AOF), tag free 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 (monomer)

Protein Uniprot number

High purity chicken/duck protein (UniProt: P48800/ A0A6J3CX03)

Species reactivity

- chicken
- species similarity:
- duck - 100%

Product Information

- High quality food grade recombinant protein
- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- 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

- Chicken and duck primary and stem cell culture
- Cellular agriculture process development
- Cellular agriculture and cultivated meat cell culture media optimization

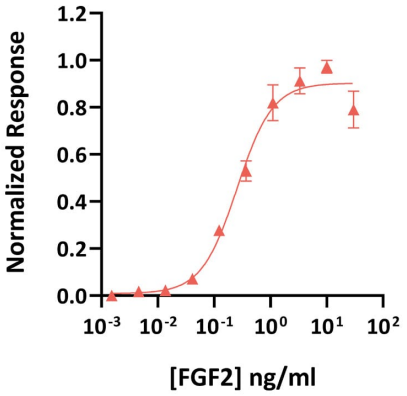
Further quality assays

- 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

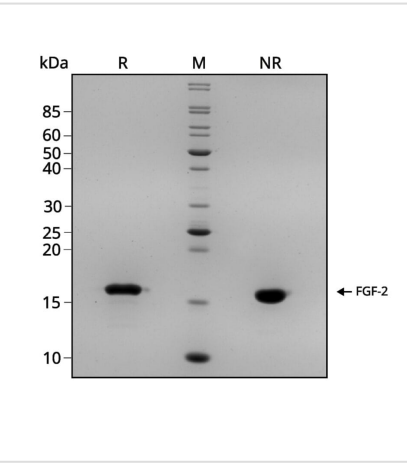
Bioactivity

Recombinant chicken/duck FGF-2 145 aa activity was determined using FGF-2 responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of chicken/duck FGF-2 145 aa for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk037 lot 204733. EC50 = 0.256 ng/ml.



Purity

Recombinant chicken/duck 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. Data from Qk030 lot #204733.



Original product page: https://qkine.com/product/recombinant-chicken-duck-fgf-2-145-aa-protein-qk030-fg/

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