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Recombinant bovine/porcine IGF-1 protein (Qk113-FG)



Type: Food grade proteins

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

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Product Information

Bovine/porcine insulin-like growth factor 1 (IGF-1) protein is used in the maintenance of induced pluripotent stem cells (iPSC) and is necessary for cell growth in the absence of insulin. IGF-1 promotes the proliferation of many cell types, including embryonic stem cells (ESC) and mesenchymal stem cells (MSC).

Qkine bovine/porcine IGF-1 is a high quality food grade 8 kDa protein, Qkine growth factors are animal origin-free (AOF) and carrier-protein free (CF) for consistent stem cell culture and cultured meat applications.

Alternative protein names

Insulin-like Growth Factor-I, Somatamedin-C, Mechano Growth Factor (MGF), IGF1, IGF 1

Molecular weight

8 kDa

Protein Uniprot number

High quality bovine/porcine IGF-1 protein (Uniprot: P07455)

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 acetonitrile, TFA

Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

Featured applications

- Cell culture media optimization and replacement of insulin in defined media
- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development

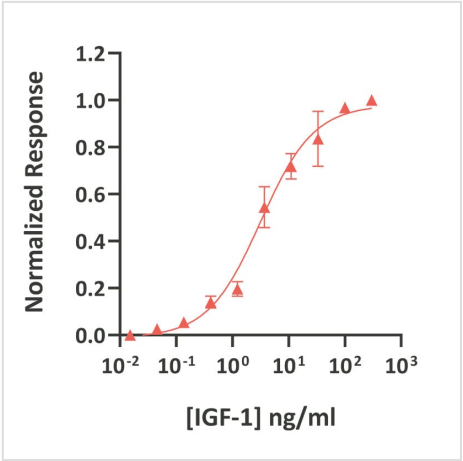
Further quality assays

- 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

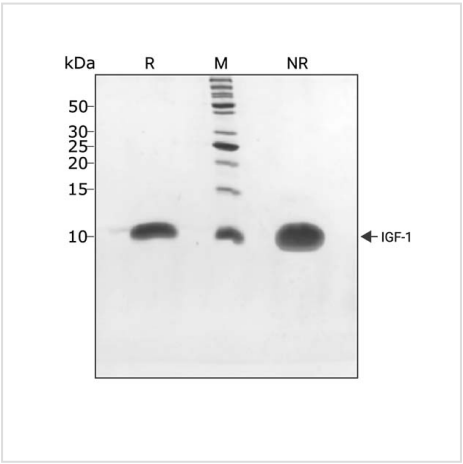
Bioactivity

IGF-1 activity was determined using the Promega serum response element luciferase reporter assay in transfected MCF-7 cells. EC50 = 3.5 ng/ml (0.45 nM). Cells are treated in triplicate with a serial dilution of IGF-1 for 4 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity.



Purity

IGF-1 protein migrates as a single band at 10 kDa in non-reducing (NR) conditions and upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 18% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk047 batch #104331.



Original product page: https://qkine.com/product/recombinant-bovine-porcine-igf-1-protein-qk113-fg/

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