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Food grade thermostable FGF-2 discovery kit (Qk502-FG)

Type: Food grade discovery kits

Available for purchase: Qk502-FG: Food grade thermostable FGF-2 kit

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Product Information

For rapid testing of FGF-2 with thermostable FGF-2 protein, to determine whether the short half-life of FGF-2 is impacting cell fate. FGF-2 is commonly used in stem cell culture for bovine/porcine induced pluripotent stem cell (iPSC) and embryonic stem cell (ESC) maintenance and induced pluripotent and mesenchymal stem cell proliferation and differentiation.

FGF-2 has a bioactive half-life of less than 10 hours. Even with daily media changes, the level of FGF2 signaling in media fluctuates substantially. FGF2-G3 is a thermostable form of FGF2 with a bioactive half-life of over 7 days.

FGF-2 is typically available in two lengths – 145 aa or 154 aa, recent evidence suggests higher bioactivity with the 145 aa form.

The food grade thermostable FGF-2 Discovery Kit contains 4 different forms of food grade FGF-2 to determine whether there is a biological impact of using one FGF-2 length over the other in both the wild type and thermostable forms, and to determine whether consistent levels of FGF2 signaling allows for more homogeneous culture.

Product Information

- High quality food grade proteins
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Bioactivity Guaranteed
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized

Reconstitution instructions

- Discovery kits

Featured applications

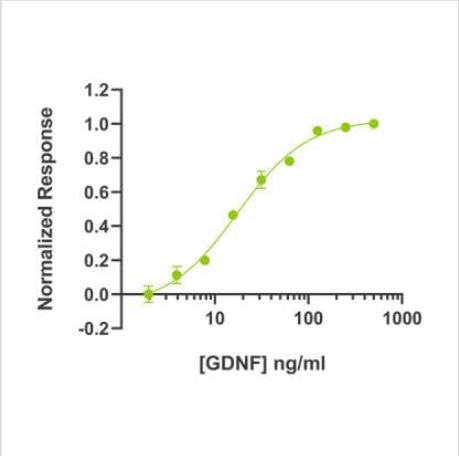
- Bovine and porcine stem cell expansion and maintenance
- Cellular agriculture and cultivated meat cell culture media optimization
- Serum-free media development

Further quality assays

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

Scientific Information

Bioactivity



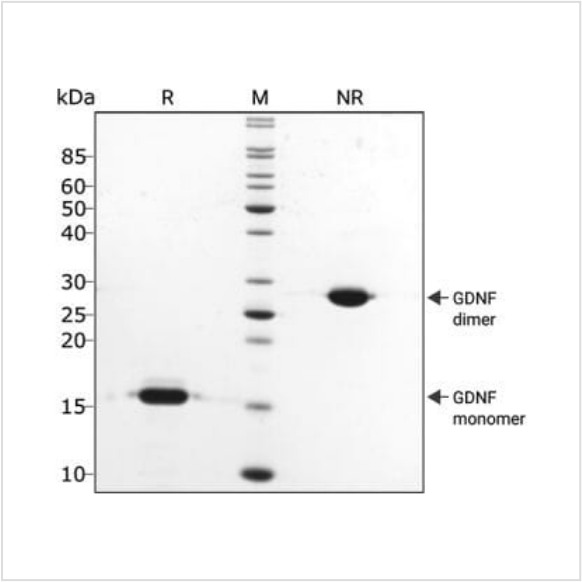
Bovine/porcine FGF-2 (145 aa) - Qk040-FG - **50 µg**
Highly bioactive truncated FGF-2 used for bovine/porcine induced pluripotent stem cell (iPSC) and embryonic stem cells (ESC) maintenance, and induced pluripotent and mesenchymal stem cells proliferation and differentiation.

Bovine/porcine FGF-2 (154 aa) - Qk056-FG - **50 µg**
Full-length FGF-2 protein used to support the maintenance of bovine/porcine embryonic stem cells and proliferation and differentiation of induced pluripotent and mesenchymal stem cells. This 154 aa form of FGF-2 comprises the core structured region and N-terminal extension.

Bovine/porcine FGF2-G3 (145 aa) - Qk080-FG - **50 µg**
A thermostable engineered form of bovine/porcine FGF-2 (bFGF). FGF2-G3 145 aa is a highly bioactive truncated form of FGF-2. The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Bovine/porcine FGF2-G3 (154 aa) – Qk081-FG - **50 µg**
A thermostable engineered form of bovine/porcine FGF-2. The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Purity



Original product page: https://ryan.calliope-alpha.ts.net/product/food-grade-thermostable-fgf-2-discovery-kit-qk502-fg/

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