

Food grade FGF-2 species-matched discovery kit (Qk501-FG)



Type: Food grade discovery kits

Available for purchase: Qk501-FG: Food grade FGF-2 discovery kit

Buy online with secure credit card or purchase order.

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Product Information

For rapid testing of multiple species FGF-2 and thermostable FGF-2 to replace human proteins in cell cultivated meat. FGF-2 is commonly used in [cultivated meat](#) cell culture for the differentiation and maintenance of cells, but human FGF-2 is often used for this process.

It is generally accepted that best practice is to use growth factors from the target species for reasons of consumer acceptance, regulatory considerations and species-matched activity. Receptor binding affinity and efficacy may differ depending on each species, resulting in higher concentration necessary for desired results in culture if non-species specific FGF-2 is used.

The food grade FGF-2 species-matched discovery kit (Qk501-FG) contains 5 different forms of food grade FGF-2, with species neutral thermostable FGF2-G3 (Qk053) for comparison, allowing easy optimization studies for researchers looking to replace human growth factors with species-matched FGF-2, as well as thermostable versions of FGF-2 proteins.

Food grade [fish and eel FGF-2](#) also available.

Product Information

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

- Bioactivity Guaranteed
- Manufactured in the UK under a food manufacturing HACCP regime

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

Zebrafish FGF-2 - Qk116-FG - **100 µg**

Previously used extensively to support the maintenance and proliferation of human and mouse induced pluripotent (iPSC) and embryonic stem cells (ESC)

Bovine/porcine FGF-2 (145 aa) - Qk040-FG - **50 µg**

For the development of species-matched bovine (cow) and porcine (pig) cellular agriculture protocols and veterinary research applications.

Bovine/porcine FGF-2 (154 aa) - Qk056-FG - **50 µg**

The long form of FGF-2 used for the development of optimized serum-free culture media for species-matched bovine (cow) and porcine (pig) cultivated meat and veterinary research applications.

Bovine/porcine FGF2-G3 (154 aa) - Qk081-FG - **50 µg**

A thermostable engineered form of bovine FGF-2. This is the 154 aa mature domain of FGF-2 (Qk056-FG). The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

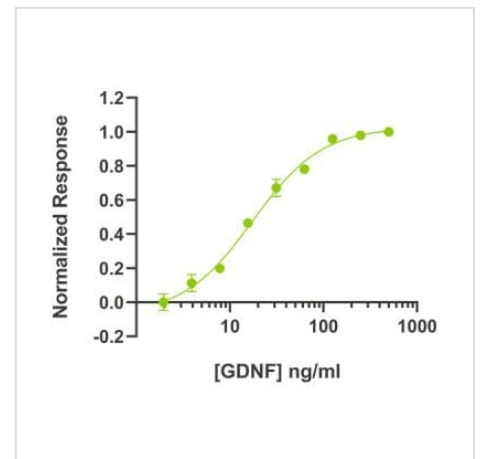
Bovine/porcine FGF2-G3 (145 aa) - Qk080-FG - **50 µg**

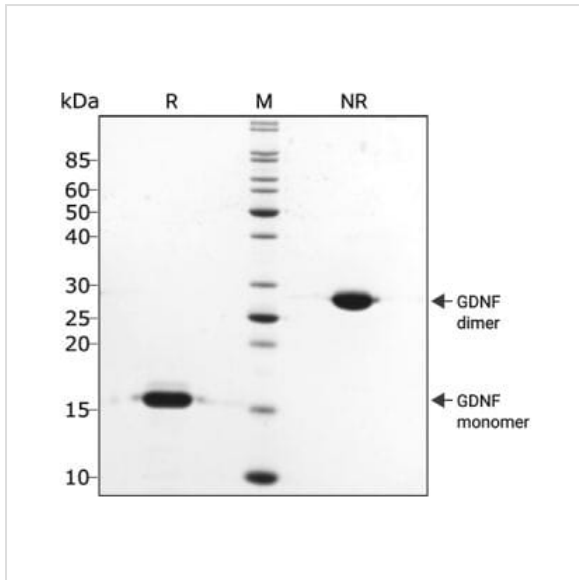
thermostable engineered form of bovine FGF-2. This is the 145 aa mature domain of FGF-2 (Qk040-FG). The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

FGF2-G3 (154 aa) - Qk053 - **50 µg**

A thermostable engineered form of FGF-2. Qk053 is the 154 aa mature domain of FGF-2 (Qk027). The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Purity





Original product page: <https://qkine.com/product/food-grade-fgf-2-species-matched-discovery-kit-qk501-fg/>

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