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Thermostable FGF-2 discovery kit (Qk502)

Type: Growth factor discovery kits

Available for purchase: Qk502: Thermostable FGF-2 discovery 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 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 FGF-2 signaling in media fluctuates substantially. FGF2-G3 is a thermostable form of FGF2 with a bioactive half-life of over 7 days, stabilized FGF-2 concentration in media and allowing weekend-free stem cell culture.

Qkine FGF-2 is available in two lengths – 145 aa or 154 aa. Recent data suggests the 145 aa form may be more bioactive at lower concentrations (Truszkowski et al, 2025).

The thermostable FGF-2 discovery kit contains 4 different forms of FGF-2 to allow comparison of FGF-2 length and thermostability on stem cell cultures.

Alternative protein names

Basic fibroblast growth factor, bFGF, FGF-β, FGF2, FGF 2, Fibroblast growth factor-basic, HBGF-2, betaFGF, beta FGF

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Bioactivity Guaranteed

- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized

Reconstitution instructions

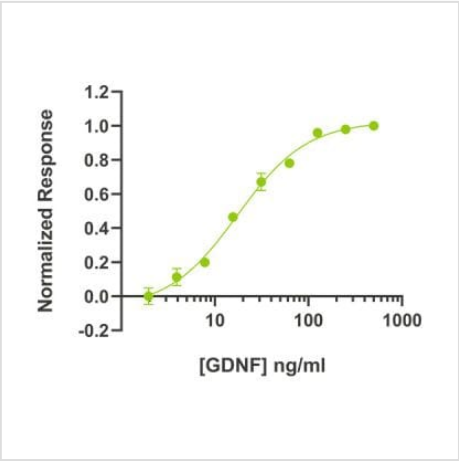
- Discovery kits

Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

Bioactivity



Human FGF-2 (145 aa) - Qk025 - **50 µg**

Used for induced pluripotent stem cell (iPSC) and embryonic stem cells (ESC) maintenance, and induced pluripotent and mesenchymal stem cells proliferation and differentiation.

Human FGF-2 (154 aa) - Qk027 - **50 µg**

A highly bioactive, long–form of human fibroblast growth factor 2 protein. FGF-2 protein is used to support the maintenance of human 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.

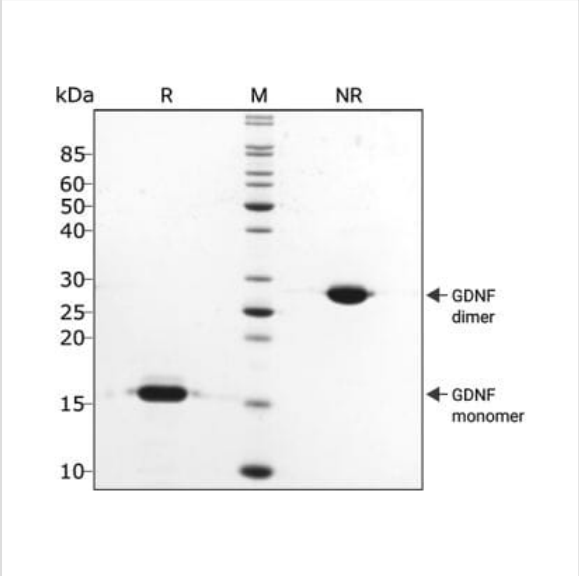
Human FGF2-G3 (145 aa) - Qk052 - **50 µg**

A thermostable engineered form of human FGF-2 (bFGF). Human FGF2-G3 145 aa comprises the 145 aa form of FGF-2. The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Human FGF2-G3 (154 aa) – Qk053 - **50 µg**

A thermostable engineered form of human FGF-2. Human FGF2-G3 154 aa is the 154 aa mature domain of 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/thermostable-fgf-2-discovery-kit-qk502/

PDF generated: 12 May 2026