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iPSC culture kit (Qk512)



Type: Growth factor discovery kits

Available for purchase: Qk512: iPSC culture kit

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Product Information

The iPSC culture kit is a complete kit for the culture and maintenance of iPSC, save on individual growth factors by purchasing together. Kit contains thermostable FGF2-G3 (Qk053), animal origin-free TGF-β1 PLUS™ (Qk010) and high purity low endotoxin vitronectin (Qk120) for optimized weekend-free culture of iPSCs.

Each kit is sufficient for 14 passages of a 6 well plate.

Supplement this kit with HiDef® ITS cell culture supplement and Y-27632 dihydrochloride (Qk1104)

Species reactivity

- human

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Bioactivity Guaranteed
- Expressed in *E. coli*
- Manufactured in our Cambridge, UK laboratories
- Lyophilized

Reconstitution instructions

- Discovery kits

Featured applications

- Induced pluripotent stem cell culture and maintenance

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 TGF-β1 PLUS™ – Qk010 – **25 µg**

Regulates various cellular processes, including cell proliferation, growth, differentiation, motility, and apoptosis. It is an essential growth factor in many embryonic and induced pluripotent stem cell maintenance media, including the commonly used E8, StemPro, and mTeSR media.

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

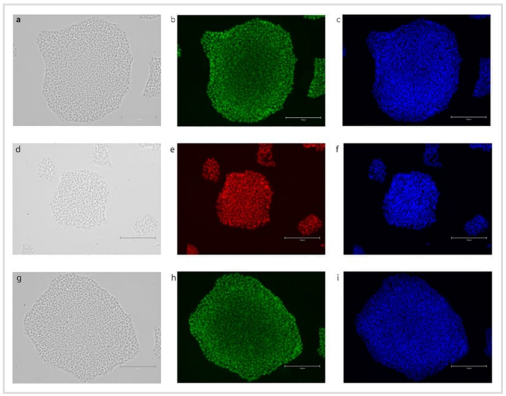
A thermostable engineered form of human FGF-2. Human FGF2-G3 154 aa is the 154 aa mature domain of FGF-2. The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Human vitronectin – Qk120 – **500 µg**

Provides a defined environment that supports the maintenance of pluripotency and is suitable for feeder-free culture, expansion, differentiation, and reprogramming of stem cells.

Purity

Immunocytochemistry of pluripotency markers in iPSC grown in E8-like media. Brightfield image (A); NANOG expression (green, B); Hoechst 33258 (blue, C); Brightfield image (D); OCT-4 expression (red, E); Hoechst 33258 (Blue, F); Brightfield image (G); SOX2 expression (green, H); Hoechst 33258 (blue, I). Scale bar = 150 µm. iPSC cultured using the iPSC culture kit (Qk512).



Application note | Weekend-free human induced pluripotent stem cell culture using thermostable FGF-2 (bFGF) and animal origin-free TGF-β1 and vitronectin for improved colony homogeneity

Original product page: https://qkine.com/product/ipsc-culture-kit-qk512/

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