

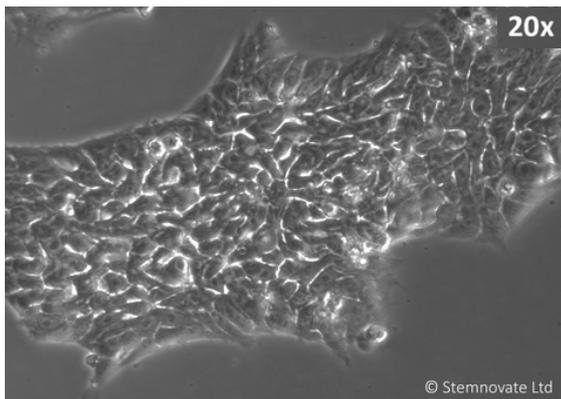
Qk010: TGF-β1 PLUS

Qkine

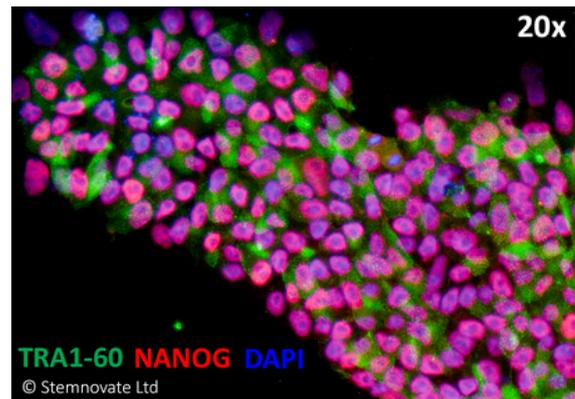
For more reproducible animal-free iPSC and ESC chemically-defined culture media

The first optimised animal-free recombinant human TGF-β1

Maintains iPSC pluripotency with high Nanog expression



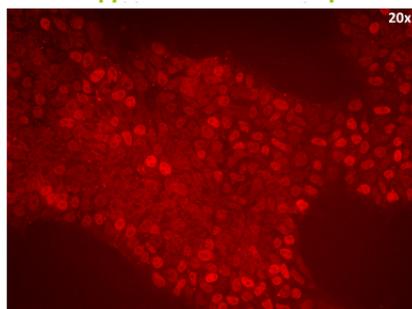
TGF-β1 PLUS (Qk010) maintains pluripotency and good colony morphology at 1 ng/ml in a chemically-defined serum and feeder-free iPSC culture.



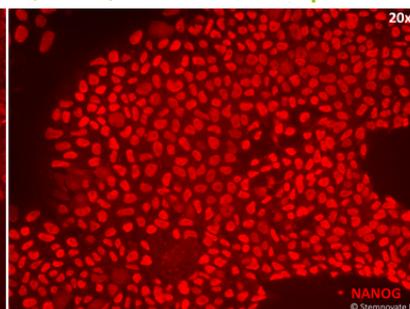
Immuno-staining for pluripotency markers Tra-1-60 and Nanog show high levels of expression in stable iPSCs maintained in TGF-β1 PLUS (Qk010)-containing defined media.

Enhanced bioactivity when benchmarked against other suppliers

Supplier 1: FGF2 + TGF-β1



Qkine: Qk025 FGF2 + TGF-β1 PLUS



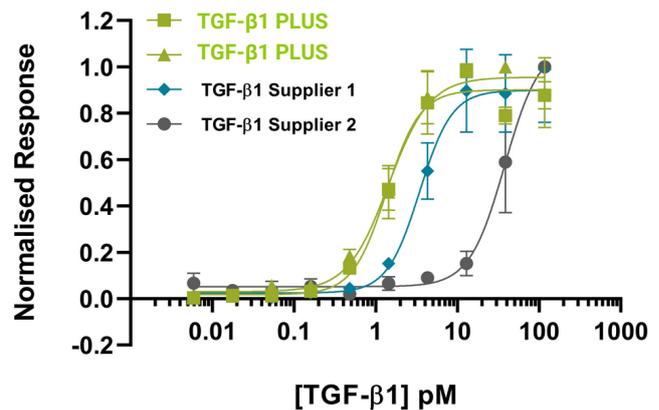
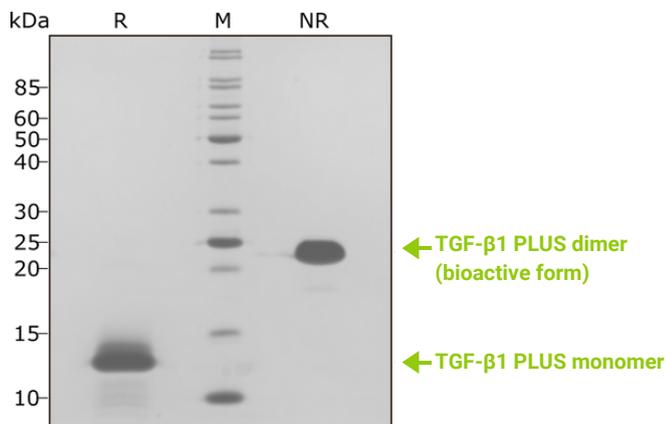
Stemnovate IPS media (chemically-defined, serum and feeder-free culture). Higher Nanog pluripotency marker immuno-staining in human iPSC cultured in Qkine FGF2 (Qk025) and TGF-β1 PLUS (Qk010).

“ Stemnovate has a biobank of diverse, stable, genotyped IPS lines that pass stringent tests for pluripotency and three germ layer differentiation not available in any other commercial product. We further use well-defined culture conditions so that a subtle response to cytokines can be evaluated in assays using nanogram to microgram concentrations. Qkine’s TGF-β1 PLUS performed well on criteria such as maintaining Nanog and Tra-1-60 expression as these are vital genes for pluripotency. ”

Ruchi Sharma, CEO and Founder, Stemnovate



Extensive biochemical and quantitative bioactivity data demonstrating highest protein purity and homogeneity



TGF- β 1 PLUS (Qk010) dimer migrates as a single band at 24 kDa in non-reducing (NR) and 13 kDa as a single monomeric species upon reduction (R). High purity yield of dimeric protein (bioactive form). More biochemical characterisation data available online.

TGF- β 1 PLUS (Qk010) is highly bioactive compared to mammalian-expressed TGF- β 1. Comparative activity determined using a quantitative luciferase reporter assay. TGF- β 1 PLUS EC₅₀ 1.4 pM. Suppliers 1 and 2 have EC₅₀ ~3.5 pM and 38 pM respectively.

Why choose Qkine TGF- β 1 PLUS?

Q

Maintains iPSC pluripotency with high Nanog expression

Q

Enhanced bioactivity when benchmarked against other suppliers

Q

High-purity protein with extensive biochemical characterisation data

Q

Animal and carrier protein-free for defined media and reproducibility

Q

Custom and bulk orders available with fast worldwide shipping

Have you tried our highly pure, extensively validated bioactive proteins?

FGF2 145 aa
(Qk025)

Activin A
(Qk001)

zFGF2
(Qk002)

Used by Cambridge
Stem Cell Institute