

Pluripotent stem-cell derived organoids

Growth factors for organoid culture media

qkine.com/organoids



Cortical

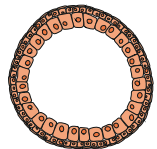
BDNF, FGF-8 a, FGF-8b, GDNF, TGF-β1
Qk050, Qk059, Qk057, Qk051, Qk010

[Jacob et al 2020](#)

Retina

IGF-1
Qk047

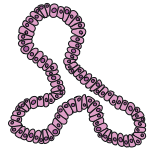
[Regent et al 2020](#)



Lung

Activin A, FGF-4, FGF-10, Noggin
Qk001, Qk004, Qk003, Qk034

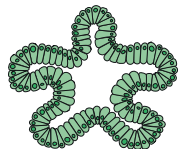
[Dye et al 2015](#)



Mammary

FGF-10, HGF
Qk003, Qk013

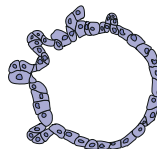
[Qu et al 2017](#)



Stomach

Activin A, EGF, FGF-4, Noggin, Wnt3a
Qk001, Qk011, Qk004, Qk034

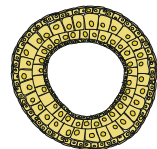
[McCracken et al 2014](#)



Pancreas

Activin A, BMP-4, FGF-4, Noggin
Qk001, Qk038, Qk004, Qk034

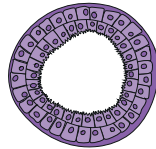
[Koike et al 2021](#)



Skin

FGF-2, BMP-4
Qk027, Qk038

[Lee et al 2020](#)

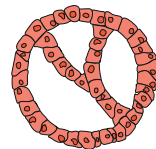


Esophagus

Activin A, BMP-4, EGF, FGF-2, FGF-10, KGF, Noggin
Qk001, Qk038, Qk011, Qk027, Qk003, Qk046, Qk034

[Zhang al 2018](#)

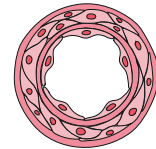
Activin A, BMP-4, EGF, FGF-4, FGF-10, Noggin,
Qk001, Qk038, Qk011, Qk004, Qk003, Qk034
Wnt3a



Heart

FGF-2, TGF-β1
Qk027, Qk010

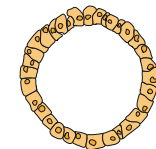
[Drakhlis et al 2021](#)



Blood vessels

BMP-4, FGF-2, VEGF-A
Qk038, Qk027, Qk048

[Wimmer et al 2019](#)



Liver

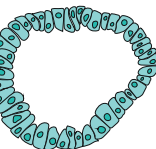
Activin A, OSM, (Wnt3a)
Qk001, Qk049

[Sekine et al 2017](#)

Activin A, BMP-4, BMP-7, EGF, FGF-2,
Qk001, Qk038, Qk011, Qk027
FGF-7, HGF

Qk046, Qk013

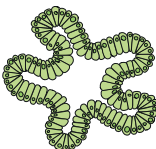
[Ramli et al 2020](#)



Kidney

FGF-9
Qk039

[Takasato et al 2015](#)



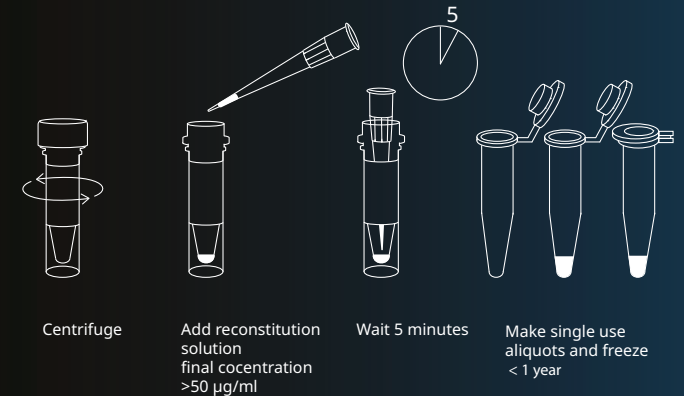
Intestine

Activin A, EGF, FGF-4, Noggin, R-spondin 1, Wnt3a
Qk001, Qk011, Qk004, Qk034, Qk006

[McCracken et al 2014](#)

Reconstituting lyophilized proteins

Qkine growth factors are lyophilized to maintain biochemical quality, improve stability, and allow shipping at ambient temperatures to enhance sustainability.

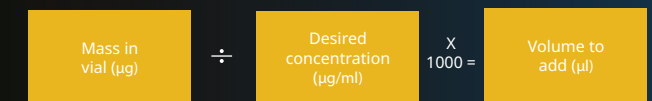


Quick calculator

The optimum reconstitution solution for each protein is determined experimentally.

Reconstitute to a concentration of >50-1000 µg/ml, dilute in sterile physiological buffer as required, prepare single-use aliquots and store frozen.

Reconstitution calculator

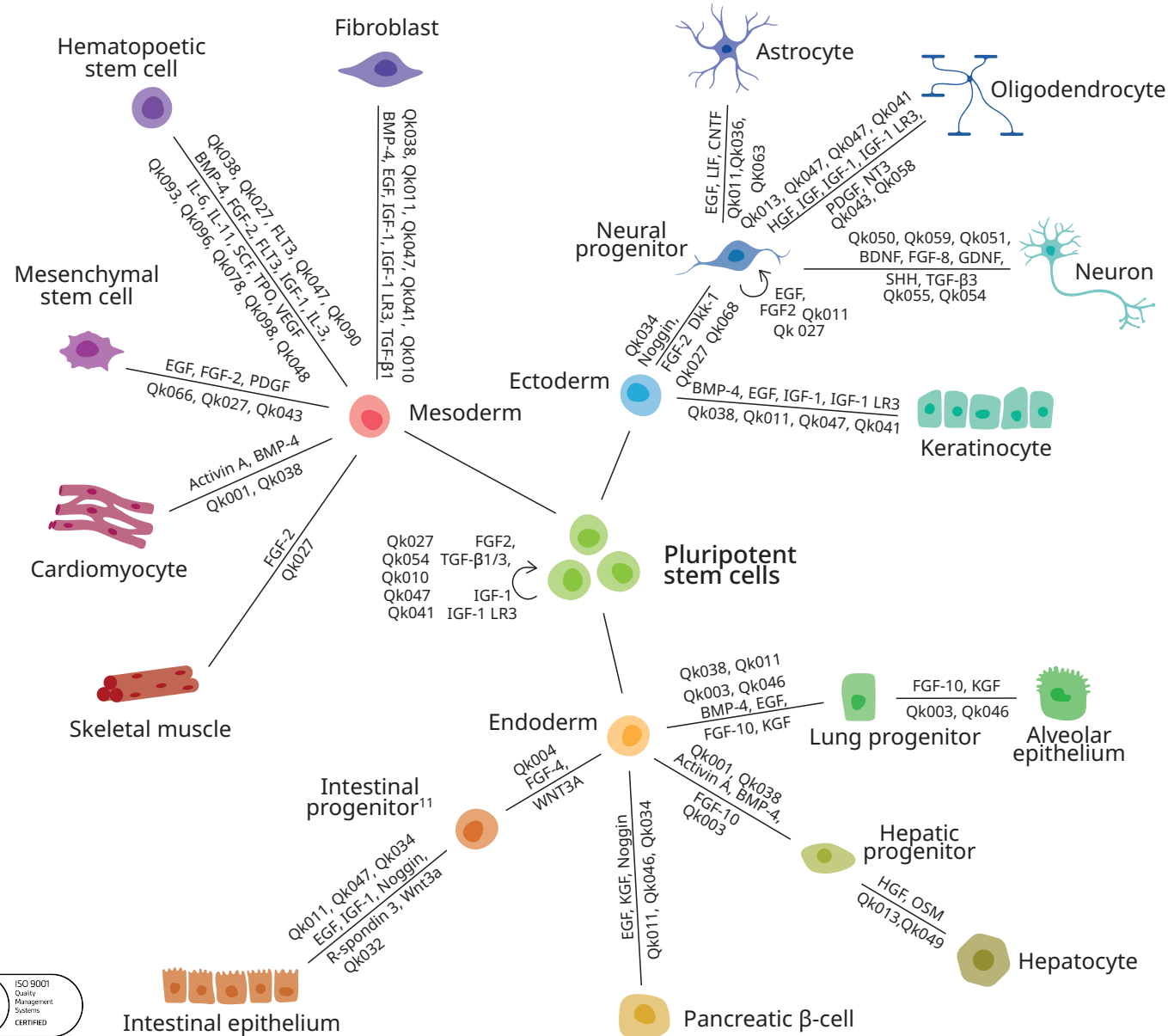


We're happy to help, please email support@qkine.com, or visit qkine.com/your-proteins

Qkine

Induced pluripotent stem cell differentiation

Growth factors required for directed differentiation towards specific human cell types from human iPSCs



Raising standards in bioactive protein manufacturing and innovation

Qkine is committed to manufacturing bioactive proteins of the highest quality to enhance scientific outcomes and improve reproducibility.

Our robust animal-free manufacturing platform, along with rigorous quality control procedures, ensures exceptional bioactivity and consistent performance from lot to lot, guaranteeing outstanding performance in your applications. We proactively leverage our expertise in manufacturing and protein engineering to develop unique optimized proteins designed to address fundamental biological, translational and scalability challenges.

Our product portfolio comprises growth factors and cytokines tailored for stem cell and organoid culture, as well as biomarkers and attachment factors. We actively support emerging fields such as cellular agriculture, regenerative medicine, synthetic hydrogels, organ-on-a-chip technology, and bioprinting.

To ensure absolute reproducibility and optimize scientific outcomes, all our products rigorously adhere to the [Nine-point Qkine Quality Commitment](#)

ISO 9001:2015 certified company, products manufactured in Cambridge, UK.



BS 7470:2015

