

Pluripotent stem cell derived organoids

Media recipe quick reference guide

Qkine



Three steps for choosing your growth factors

- ▶ Evidence of protein quality
 - Quantitative bioactivity data with EC50
 - Clear SDS-PAGE gel, high protein loading, good staining
 - Purity data such as mass spec, analytical reverse phase and endotoxin testing (with stringent limit <0.05. See our discussion on E.coli vs mammalian expressed growth factors)
- ▶ Good support and handling advice
- ▶ Reliable supplier, rapid delivery and complete product data

Find out more about protein quality control and growth factor selection qkine.com/choosing-growthfactors

Quick handling guide



Reconstitution calculator

$$\frac{\text{Mass in vial} (\mu\text{g})}{1\text{ng} \quad 1000\text{ng} \quad 1\mu\text{g} \quad 1000\mu\text{g}} \div \frac{\text{Desired concentration} (\mu\text{g/ml})}{\text{Volume to add} (\mu\text{l})} \times 1000 =$$

How Qkine is improving growth factors for organoids

- Animal-free**
Unmatched quality and reliability. All our proteins are made in a dedicated animal-free laboratory in Cambridge, UK.
- Total-transparency**
Know what you're giving your cells. Stringent purity and bioactivity data for all proteins.
- Protein innovation**
Solving stem cell culture challenges with optimised forms and animal-free firsts.