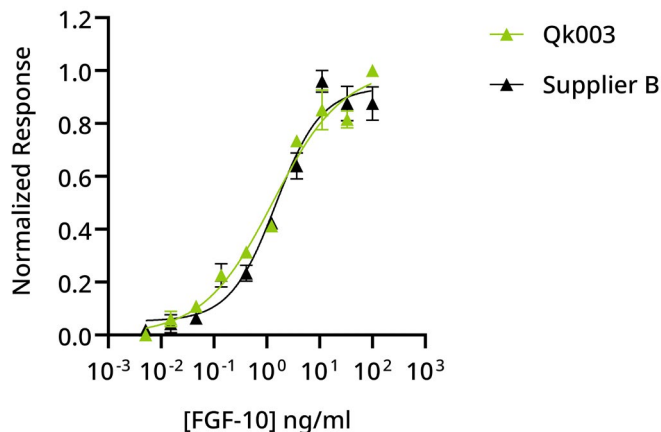


# Qkine human/rat/porcine/bovine Fibroblast Growth Factor-10 is as biologically active as a comparable alternative supplier protein

Technote

FGF-10 (Qk003)



**Quantitative luciferase reporter assay shows equivalent bioactivity of Qkine FGF-10 (Qk003), green) and alternative supplier FGF-10 (Supplier B black).**

MCF-7 luciferase reporter cells were treated in triplicate with a serial dilution of FGF-10 for 4 hours. Firefly luciferase activity is measured and normalized to control Renilla luciferase activity.

Fibroblast growth factor 10 (FGF10) is involved in several different embryo and adult cell and tissue types, including mesenchymal, neuronal and epithelial cells. FGF-10 is used widely for stimulating the differentiation of induced pluripotent stem cells (iPSC) and embryonic stem cells (ESC) and promoting organoid formation.

Qkine FGF-10 (Qk003) is animal origin-free, carrier protein-free and tag-free to ensure high and consistent bioactivity.

## Qkine FGF-10 (Qk003) Bioactivity

- ▶ Qkine FGF-10 (Qk003) was bioactive in a quantitative luciferase assay with EC<sub>50</sub> of 1.32 ng/ml (77.6 pM).
- ▶ This was comparable to FGF-10 from an alternative supplier, which had an EC<sub>50</sub> of 1.48 ng/ml (87 pM).

This bioactivity comparison demonstrates that Qkine FGF-10 (Qk003) has equivalent bioactivity to EGF from an alternative major supplier. Qkine FGF-10 (Qk003) has the advantage of being highly pure and animal origin-free, giving lot-lot consistency in bioactivity for long-term reproducible culture of stem cells and organoids.