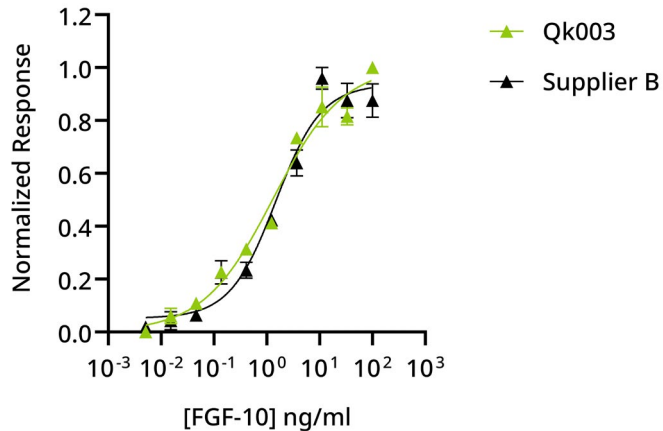


Qkine human/rat/porcine/bovine Fibroblast Growth Factor-10 is as biologically active as a comparable alternative supplier protein

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 was measured and normalized to control Renilla luciferase activity.

Fibroblast growth factor 10 (FGF-10) 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 an EC₅₀ of 1.32 ng/ml (77.6 pM).
- ▶ This was comparable to FGF-10 from an alternative supplier, which had an EC₅₀ of 1.48 ng/ml (87 pM).

This bioactivity comparison demonstrates that Qkine FGF-10 (Qk003) has equivalent bioactivity to FGF-10 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.