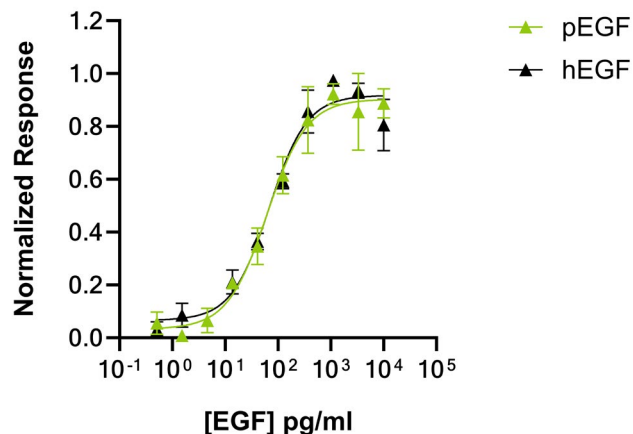


pEGF (Qk064) hEGF (Qk011)



Qkine pEGF (Qk064, green) and hEGF (Qk011, black) have comparable bioactivity.

Human and porcine EGF bioactivity was determined using a firefly luciferase reporter assay in stably transfected HEK293T. Cells were treated with a serial dilution of EGF for 3 hours in triplicate.

Epidermal growth factor (EGF), a member of the EGF family of proteins, plays a significant role in regulating cellular processes such as cell growth, proliferation, differentiation, development, and tissue homeostasis. EGF is an essential growth factor for stimulating the proliferation of induced pluripotent stem cells (iPSC) and embryonic stem cells (ESC) and their subsequent differentiation. In addition, species-specific growth factors such as porcine EGF (pEGF) are essential for the development and maintenance of animal cell lines and cellular agriculture.

Qkine produces animal origin-free (AOF), carrier protein-free, tag-free high quality human EGF (hEGF, Qk011) and pEGF (Qk064) for use in a broad range of applications.

Qkine pEGF (Qk064) and hEGF (Qk011) bioactivity

- ▶ Bioactivity was determined using a luciferase reporter assay in HEK293T cells. pEGF was bioactive with an EC50 of 64 pg/ml (10.2 pM).
- ▶ Qkine recombinant hEGF was also bioactive with an EC50 of 70.5 pg/ml (11.2 pM).

Qkine pEGF and hEGF are highly pure, bioactive and animal origin-free. Qkine pEGF (Qk064) provides a reliable source of species-specific porcine EGF for animal studies and cellular agriculture.