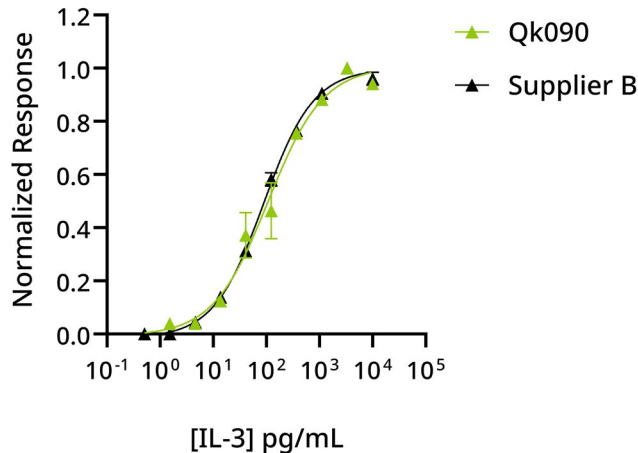


Qkine Interleukin 3 (IL-3) is as biologically active as the comparable alternative supplier protein



Stimulation of proliferation of TF-1 cells with Qkine IL-3 (Qk090, green) and alternative supplier IL-3 (Supplier B black). Cells were treated in triplicate with a serial dilution of IL-3 for 72 hours and proliferation measured using the CellTiter-Glo (Promega) luminescence assay.

Interleukin 3 (IL-3) is a hematopoietic growth factor that promotes the proliferation, growth, and survival of myeloid cells. IL-3 is commonly used in cell culture to stimulate the differentiation and maturation of human-induced pluripotent stem cells (iPSC) towards myeloid progenitors such as mast cells, basophils, neutrophils, eosinophils, monocytes, and megakaryocytes.

Qkine IL-3 (Qk090) is animal origin-free, carrier protein-free and tag-free to ensure high and consistent bioactivity.

Qkine IL-3 (Qk090) Bioactivity

- ▶ Qkine IL-3 stimulated proliferation of TF-1 human myeloid leukemia cells with an EC50 of 108.7 pg/ml (7.2 pM).
- ▶ This was comparable to Supplier B bacterially expressed IL-3 bioactivity of 89.1 pg/ml (5.9 pM).

The bioactivity comparison demonstrates that Qkine IL-3 (Qk090) has equivalent bioactivity to IL-3 from an alternative major supplier. Qkine IL-3 (Qk090) has the advantage of being highly pure and animal origin-free, giving lot-lot consistency in bioactivity for long-term reproducible culture of myeloid cells and other relevant hematopoietic cells.