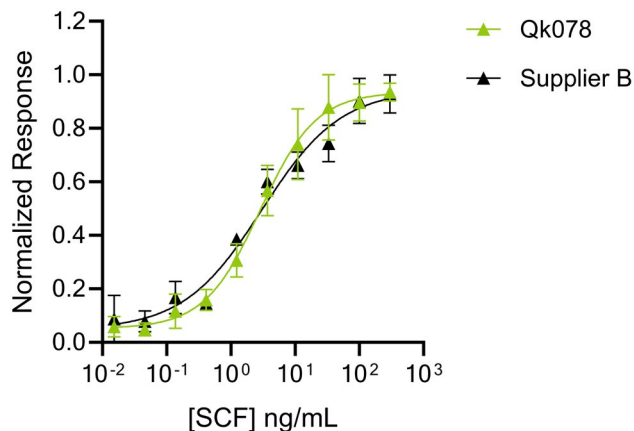


Qkine Stem Cell Factor is as biologically active as a comparable alternative supplier protein



Stimulation of proliferation of TF-1 cells with Qkine SCF (Qk078, green) and alternative supplier SCF (Supplier B black).

Cells were treated in triplicate with a serial dilution of SCF for 48 hours and proliferation measured using the CellTiter-Glo (Promega) luminescence assay.

Stem cell factor (SCF) is a key myeloid progenitor differentiation factor for a variety of myeloid cells such as megakaryocytes, basophils, neutrophils, and monocytes, it is also a primary growth and activation factor for mast cells and eosinophils. SCF is a critical factor in the maintenance and expansion of hematopoietic stem cells (HSC) in the bone marrow microenvironment.

Qkine SCF (Qk078) is animal origin-free, carrier protein-free and tag-free to ensure high and consistent bioactivity.

Qkine SCF (Qk078) Bioactivity

- ▶ Qkine SCF stimulated proliferation of TF-1 human myeloid leukemia cells with an EC50 of 2.86 ng/ml (154 pM).
- ▶ This was comparable to SCF from Supplier B with bioactivity of 3.05 ng/ml (166 pM).

The bioactivity comparison demonstrates that Qkine SCF (Qk078) has equivalent bioactivity to SCF from an alternative major supplier for simple cytokine substitution. Qkine SCF (Qk078) has the advantage of being highly pure, bioactive and animal origin-free, giving lot-lot consistency for stem cell culture.