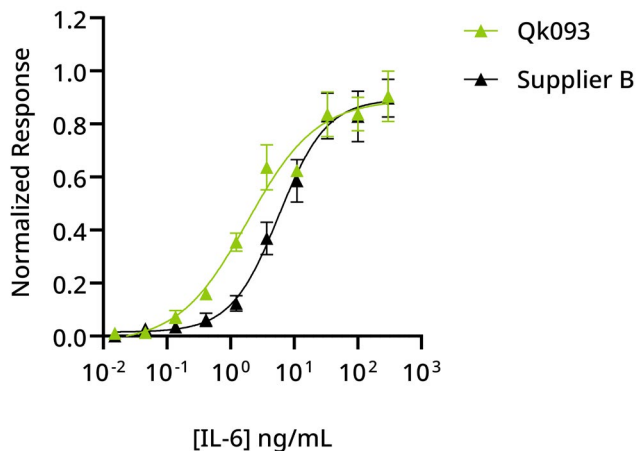


# Qkine Interleukin-6 is more biologically active than a comparable alternative supplier protein

Technote

IL-6 (Qk093)



## Quantitative luciferase reporter assay shows equivalent bioactivity of IL-6 (Qk093, green) and alternative supplier IL-6 (Supplier B black).

HEK293T luciferase reporter cells were treated in triplicate with a serial dilution of IL-6 for 24 hours. Firefly luciferase activity is measured and normalized to control Renilla luciferase activity.

Qkine Interleukin-6 (IL-6) is a multifunctional cytokine that regulates immune responses and inflammation. IL-6 is produced by various cells, including immune cells such as T cells and macrophages, as well as non immune cells like fibroblasts and endothelial cells.

IL-6 is used for the culture of hematopoietic stem cells (HSC) and other relevant cells.

Qkine IL-6 (Qk093) is animal origin-free, carrier protein-free and tag-free to ensure high and consistent bioactivity.

### Qkine IL-6 (Qk093) Bioactivity

- ▶ Qkine IL-6 (Qk093) was bioactive in a quantitative luciferase assay with EC50 of 1.85 ng/ml (88.5 pM).
- ▶ This was more bioactive than IL-6 from an alternative supplier, which had an EC50 of 5.74 ng/ml (274.6 pM).

Qkine IL-6 (Qk093) was found to be more bioactive than IL-6 produced by an alternative major supplier. Qkine IL-6 (Qk093) has the advantage of being more cost effective, highly pure and animal origin-free, giving lot-lot consistency in bioactivity for long-term reproducible culture of HSC and other cells.