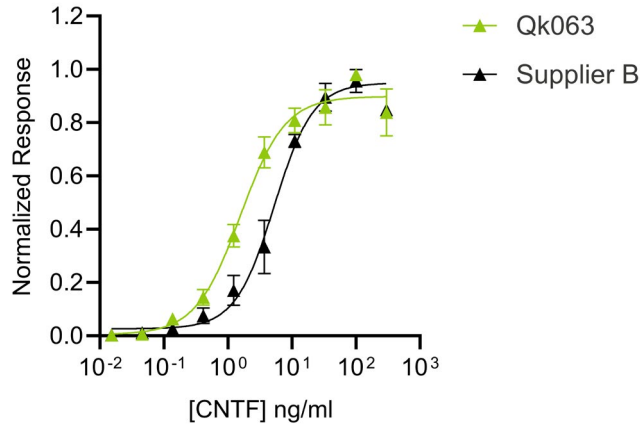


# Qkine Ciliary Neurotrophic Factor (CNTF) is more biologically active than a comparable alternative supplier



## Qkine CNTF (Qk063) has higher bioactivity than alternative supplier CNTF.

Bioactivity was determined using a CNTF-responsive firefly luciferase reporter assay in stably transfected HEK293T cells. Cells were treated with a serial dilution of CNTF for 24 hours in triplicate. Qkine CNTF (Qk063, green) has a higher bioactivity than alternative bacterially expressed CNTF (Supplier 1, black).

Ciliary Neurotrophic Factor (CNTF) is a member of the IL-6 family of cytokines. CNTF protein plays a crucial role in regulating the development of the nervous system and is involved in the differentiation and maintenance of various neurons, glial cells, and retinal cells.

Qkine CNTF (Qk063) is animal origin-free, carrier protein-free and tag-free to ensure high and consistent bioactivity.

### Qkine CNTF (Qk063) Bioactivity

- ▶ The bioactivity of CNTF (Qk063) was determined to have an EC<sub>50</sub> of 1.57 ng/ml (69 pM) using a CNTF-responsive firefly luciferase reporter assay.
- ▶ Qkine CNTF was 3-fold more bioactive than CNTF from Supplier 1 which had an EC<sub>50</sub> of 5.29 ng/ml (232 pM).

Qkine CNTF (Qk063) had higher bioactivity than CNTF from an alternative major supplier. Qkine CNTF (Qk063) has the advantage of being highly pure and animal origin-free, with increased bioactivity for cost-effective reproducible differentiation and maintenance of neural lineages.