

Description for dataset *gene*

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Reference: Cherednichenko G et al. 2012. Triclosan impairs excitation–contraction coupling and Ca²⁺ dynamics in striated muscle. PNAS 109: 14158-14163.

This is gene expression data (CT) for gonadotropin releasing hormone (GnRH) from GT1-7 cell lines (hypothalamic cells) exposed to the antibacterial agent triclosan.

replicate = 1 to 12 replicates of the experiment

treatment = growth treatment; a vehicle control (DMSO), 1 micromolar of triclosan, and 10 micromolar of triclosan.

ct = gene expression. In a real time PCR assay a positive reaction is detected by accumulation of a fluorescent signal. The Ct (cycle threshold) is defined as the number of cycles required for the fluorescent signal to cross the threshold (ie exceeds background level). Ct levels are inversely proportional to the amount of target nucleic acid in the sample. The lower the Ct level the greater the amount of target nucleic acid in the sample. Negative numbers correspond to down regulation relative to a control treatment (DMSO), and positive numbers correspond to up regulation.