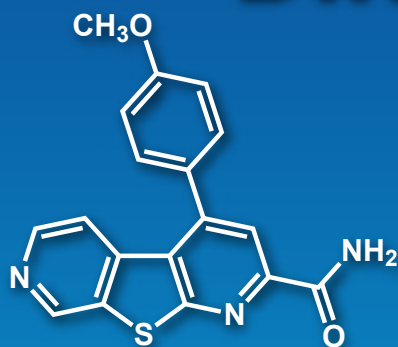


Helioxanthin Analogue (TH) Promoting Osteogenic Differentiation



TH

10mg / 50mg
[M3085]

Advantages

- Stimulates osteoblast differentiation of osteoblast precursors
- Enhances bone regeneration in rodent bone defect models
- Induces the osteogenic effects on stem cells

The helioxanthin analogue (TH) is an osteogenic small compound that was first reported by Ohba *et al.*¹⁾ In their reports, TH not only stimulates osteoblast differentiation of osteoblast precursors, but also enhances bone regeneration in rodent bone defect models.^{2,3)} The osteogenic effects are also observed in mouse and human pluripotent stem cells^{4,5)} as well as human dental pulp stem cells.⁶⁾

Figure 1. mRNA expression of osteoblast marker genes in MC3T3-E1 cells treated with TH for 14 days (RT-qPCR analysis).

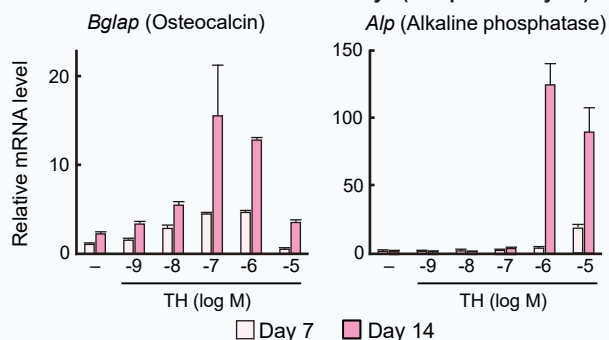
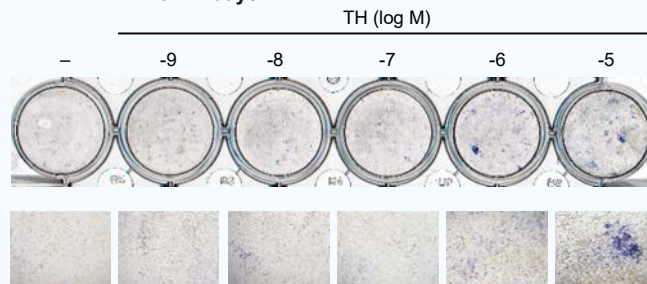


Figure 2. ALP staining of MC3T3-E1 cells treated with TH for 14 days.



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