

MC3T3-E1 Subclone 14

Catalog No: tcel378



Available Sizes

Size: 1×10⁶cells/t25culturebottle



Specifications

Application:

These cell lines are good models for studying in vitro osteoblast differentiation, particularly ECM signaling. They have behavior similar to primary calvarial osteoblasts.

Subculturing:

Remove and discard culture medium. Briefly rinse the cell layer with DPBS solution to remove all traces of serum that contains trypsin inhibitor. Add 1.0 to 2.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 3 minutes). Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. Add 4.0 to 6.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels.

Product Description

The subclones were selected for high or low osteoblast differentiation and mineralization after growth in medium containing ascorbic acid. The MC3T3-E1 Subclone 4 and the MC3T3 Subclone 14 lines exhibit high levels of osteoblast differentiation after growth in ascorbic acid and 3 to 4mM inorganic phosphate.



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