

Product sheet

MC3T3-E1 Subclone 24 | 305186

General Information

Description MC3T3-E1 Subclone 24 is a clonal cell line derived from the MC3T3-E1 cell line. It is a fibroblast cell line that is highly proliferative and capable of forming colonies. The cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS). MC3T3-E1 Subclone 24 is a clonal cell line derived from the MC3T3-E1 cell line. It is a fibroblast cell line that is highly proliferative and capable of forming colonies. The cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS).

Organism Mouse

Tissue Skin

Applications Wound healing, Osteoblast differentiation, Cell proliferation

Genetic Information

Breed/Subspecies C57BL/6

Age 3-6 weeks

Gender Male

Morphology Fibroblast

Cell type Fibroblast

Growth properties Adherent

Identification

Citation MC3T3-E1 Subclone 24 (ATCC CCL-163) Cytion 305186

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_5438

Additional Information

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Receptors expressed PTHR1, PTHR2, PTHR3, PTHR4, PTHR5, PTHR6, PTHR7, PTHR8, PTHR9, PTHR10, PTHR11, PTHR12, PTHR13, PTHR14, PTHR15, PTHR16, PTHR17, PTHR18, PTHR19, PTHR20, PTHR21, PTHR22, PTHR23, PTHR24, PTHR25, PTHR26, PTHR27, PTHR28, PTHR29, PTHR30, PTHR31, PTHR32, PTHR33, PTHR34, PTHR35, PTHR36, PTHR37, PTHR38, PTHR39, PTHR40, PTHR41, PTHR42, PTHR43, PTHR44, PTHR45, PTHR46, PTHR47, PTHR48, PTHR49, PTHR50, PTHR51, PTHR52, PTHR53, PTHR54, PTHR55, PTHR56, PTHR57, PTHR58, PTHR59, PTHR60, PTHR61, PTHR62, PTHR63, PTHR64, PTHR65, PTHR66, PTHR67, PTHR68, PTHR69, PTHR70, PTHR71, PTHR72, PTHR73, PTHR74, PTHR75, PTHR76, PTHR77, PTHR78, PTHR79, PTHR80, PTHR81, PTHR82, PTHR83, PTHR84, PTHR85, PTHR86, PTHR87, PTHR88, PTHR89, PTHR90, PTHR91, PTHR92, PTHR93, PTHR94, PTHR95, PTHR96, PTHR97, PTHR98, PTHR99, PTHR100

Protein expression BSP, OCN, PTH

Tumorigenic Yes, tumorigenic in nude mice

MC3T3-E1

Culture Medium MEM, w: 2.0 mM L-glutamine, w: 10% FBS, w: 1.0 mM beta-mercaptoethanol, w: 2.2g/L NaHCO3

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are grown in MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol. Cells are passaged into T25 flasks when they reach 70-80% confluency. Media is removed and cells are washed with PBS. Cells are then detached using trypsin and resuspended in fresh medium.

Freeze medium MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath. Add 10 mL of pre-warmed MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol to the vial. Pipette the cells into a T25 flask.
2. Allow cells to settle for 10 minutes. Add 10 mL of fresh MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol.
3. Incubate cells in a 37°C incubator with 5% CO2. Change the medium after 24 hours.
4. Once cells are established, passage them into a 75 cm2 flask when they reach 70-80% confluency.
5. Harvest cells by trypsinization and resuspend in MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol. Seed into T25 flasks at a density of 1.5 x 10^5 cells per flask.
6. Incubate cells in a 37°C incubator with 5% CO2. Change the medium after 24 hours.
7. Harvest cells by trypsinization and resuspend in MEM supplemented with 10% FBS and 1.0 mM beta-mercaptoethanol. Seed into T25 flasks at a density of 1.5 x 10^5 cells per flask.
8. Incubate cells in a 37°C incubator with 5% CO2. Change the medium after 24 hours.

