

MSC-P5 | 400294

General information

Description	MSCP5, a murine embryonic stem (ES) cell line, derived from a C3H mouse embryo, is a derivative of the 129/Ola ES cell line. It is a clonal cell line that has been established from a single cell and is capable of forming all three germ layers. It is a highly proliferative cell line that is used for various applications, including gene targeting, transgenic mouse production, and stem cell research. It is a highly proliferative cell line that is used for various applications, including gene targeting, transgenic mouse production, and stem cell research.
Organism	Mouse
Tissue	Embryonic
Synonyms	MSCP 5, MSCP-5, MSCP5

Characteristics

Breed/Subspecies	C3H
Cell type	Embryonic stem (ES) cells
Growth properties	Adherent

Identification and documentation

Citation	MSC-P5 (Cytion 400294)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_5843

Media and supplements

Media

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)
Supplements	10% FBS 1% NEAA

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Dissociation
Reagent

Trypsin

Subculturing

Cells are dissociated using trypsin. Cells are resuspended in PBS and seeded into T25, 75 or 150 cm² flasks. Cells are grown in DMEM supplemented with 10% FBS. Cells are passaged when they reach 80-90% confluency.

Seeding
density

1×10^4 cells/cm²

Fluid renewal

2-3 times per week

Post-Thaw
Recovery

Cells are seeded at a density of 1×10^4 cells/cm² and allowed to recover for 24 hours.

Freeze
medium

Cells are harvested and resuspended in FBS + 10% DMSO. Cells are frozen in a controlled rate freezer and stored at -150°C.

Thawing and
Culturing Cells

1. Cells are thawed in a water bath at 37°C and centrifuged at 300 x g for 5 minutes.
2. The supernatant is removed and the cells are resuspended in DMEM supplemented with 10% FBS.
3. Cells are seeded into T25, 75 or 150 cm² flasks at a density of 1×10^4 cells/cm².
4. Cells are grown in DMEM supplemented with 10% FBS.
5. Cells are passaged when they reach 80-90% confluency.
6. Cells are harvested and resuspended in FBS + 10% DMSO.
7. Cells are frozen in a controlled rate freezer and stored at -150°C.
8. Cells are thawed in a water bath at 37°C and centrifuged at 300 x g for 5 minutes.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Not required

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Freezing
Procedure

Das Produkt sollte bei -78°C gefroren werden.

Shipping
Conditions

Das Produkt sollte bei -78°C transportiert werden.

Storage
Conditions

Das Produkt sollte bei -150 bis -196°C gelagert werden.

Das Produkt ist steril.

Sterility

Das Produkt ist steril und kann für PCR-Analysen verwendet werden.
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