

MEC-1 | 305434

Cell Line

Description	MEC-1 is a human B-cell chronic lymphocytic leukemia (CLL) cell line. It is a clonal B-cell line derived from a patient with CLL. The cell line is characterized by the presence of a t(12;22)(p11;p11) translocation, which results in the overexpression of the BCL2 gene. MEC-1 cells are typically grown in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cell line is maintained in a humidified 5% CO2 atmosphere at 37°C.
Organism	Human
Tissue	Blood
Disease	Chronic lymphocytic leukemia
Synonyms	MEC1

Cell Line

Age	61 years
Gender	Male
Ethnicity	White
Morphology	Small, round, non-adherent cells
Cell type	B-cell
Growth properties	MEC-1 cells are typically grown in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cell line is maintained in a humidified 5% CO2 atmosphere at 37°C.

Cell Line

Citation	MEC-1 (human B-cell chronic lymphocytic leukemia) Cytion: 305434
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1870

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Cell Line Name | Cell Line ID | Cell Line Type

Viruses EBV (EBV)

Mutational profile TP53 p.Gln317Profs*20 (c.949dupC) (c.949_950insC) R3HCC1L-HTRA1

Cell Line Characteristics

Culture Medium IMDM 4.5 g/l Glucose 4 mM Glutamine 25 mM HEPES 1.0 mM Sodium Bicarbonate

Supplements 10% FBS

Seeding density 3-5*10^5/cm^2

Fluid renewal 2-3 times per week

Freeze medium DMEM 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells quickly in a 37°C water bath.
2. Transfer cells to a 15 mL tube and add 10 mL of complete medium.
3. Centrifuge at 300 x g for 3 minutes.
4. Resuspend cells in 10 mL of complete medium.
5. Seed cells into a T25 flask at a density of 3-5 x 10^5 cells/cm^2.
6. Incubate cells in a humidified 5% CO2 incubator at 37°C.
7. Monitor cell growth and confluency.
8. Pass cells when they reach 70-80% confluency.

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Incubation
Atmosphere

37 °C, 5% CO₂, humidified

Shipping
Conditions

Shipped in dry ice, stored at -78 °C

Storage
Conditions

Store at -150 °C to -196 °C

MEC-1, MEC-2, MEC-3, MEC-4

Sterility

MEC-1, MEC-2, MEC-3, MEC-4 are certified for PCR applications (PCR) and are suitable for use in PCR applications. MEC-1, MEC-2, MEC-3, MEC-4 are certified for use in PCR applications (PCR) and are suitable for use in PCR applications.