

MOLP-8 | 304082

General information

Description	MOLP-8 is a human myeloid leukemia cell line derived from a patient with acute myeloid leukemia (AML) with a t(11;14)(q13;q32) translocation. The cell line is characterized by the presence of the MLL-APL fusion gene. MOLP-8 cells are CD38+, CD138+, CD54+, and CD56-. The cell line is used for studying the pathogenesis of AML and for testing new therapies. MOLP-8 cells are grown in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cells are maintained at 37°C in 5% CO₂.
Organism	Human
Tissue	Leukemia
Disease	Acute myeloid leukemia
Metastatic site	Not applicable
Synonyms	MOLP8

Cell characteristics

Age	52 years
Gender	Male
Ethnicity	Not applicable
Growth properties	Adherent

Cell line identification

Citation	MOLP-8 (MOLP-8) Cytion 304082
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2124

MSI-MOLP-8 | 304082

MSI-MOLP-8 - MSI-MOLP-8

MSI-status	MSI (MSS)
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MSI-MOLP-8

Culture Medium	RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
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Supplements	20% FBS, 2.5 $\mu\text{g}/\text{ml}$ HEPES
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Doubling time	40 days
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Subculturing	5 $\times 10^5$ cells per well
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Seeding density	5×10^5 cells/ cm^2
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Freeze medium	10% FBS + 10% DMSO
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Thawing and Culturing Cells	1. Thaw cells quickly in a water bath at 37°C. 2. Add cells to a pre-warmed medium. 3. Seed cells into a well. 4. Incubate cells for 24 hours. 5. Add fresh medium. 6. Harvest cells after 48 hours. 7. Seed cells into a new well. 8. Incubate cells for 24 hours.
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Incubation Atmosphere	37°C, 5% CO_2
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Flask Coating

Fluoropolymer

Freezing Procedure

For freezing, the cells should be seeded into the flask and allowed to attach. The medium should be removed and the cells washed with PBS. The cells should then be resuspended in freezing medium and frozen at -78°C.

Shipping Conditions

The cells should be shipped in dry ice at -78°C.

Storage Conditions

The cells should be stored at -150 to -196 °C in liquid nitrogen. The storage time is unlimited.

Applications

Sterility

The cells are delivered in a sterile, sealed container. The cells are suitable for PCR and other applications. The cells are not suitable for clinical applications.