

Product sheet

PA-1 | 300402

General information

Description	Human cell line derived from a patient with acute myeloid leukemia (AML), characterized by a t(8;21) translocation resulting in a fusion gene (FETC1-MLL2). The cell line is established from peripheral blood mononuclear cells (PBMCs) and is maintained in suspension culture.
Organism	Human
Tissue	Leukemia
Disease	Acute Myeloid Leukemia (AML)
Metastatic site	None
Synonyms	PA1, PA I, PAI

Characteristics

Age	12 years
Gender	Male
Ethnicity	White
Morphology	Granulocytic
Growth properties	Adherent

References and identifiers

Citation	PA-1 (ATCC CCL-222) Cytion 300402
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0479

Additional information

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Antigen expression HLA A28, B12

Isoenzymes G6PD, B

Oncogenes N-ras (K12R)

Tumorigenic Yes, tumorigenic in immunodeficient mice

HEK293T

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Gibco Cytion 820100a)

Supplements Gibco Cytion 10% FBS 1% NEAA

Dissociation Reagent Trypsin

Subculturing HEK293T cells are cultured in EMEM supplemented with 10% FBS and 1% NEAA. Cells are seeded in 25 cm² flasks at 1-3 x 10⁶ cells per flask. Cells are harvested at 70-80% confluency.

Fluid renewal 2-3 times per week

Freeze medium Gibco Cytion 10% FBS, 10% DMSO (Gibco Cytion 820100a) + 10% DMSO (Gibco Cytion 820100a) + 10% FBS (Gibco Cytion 820100a)

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Do not shake the vial. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of complete medium. Seed the cells into a T25 flask.
2. Incubate the cells at 37°C in 5% CO₂. Monitor the cell density and passage the cells when they reach 70-80% confluency.
3. For long-term storage, harvest the cells and resuspend them in 100 µl of freezing medium. Store the cells in a cryovial at -150°C.
4. Thaw the cells in a water bath at 37°C. Do not shake the vial. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of complete medium. Seed the cells into a T25 flask.
5. Incubate the cells at 37°C in 5% CO₂. Monitor the cell density and passage the cells when they reach 70-80% confluency.
6. For long-term storage, harvest the cells and resuspend them in 100 µl of freezing medium. Store the cells in a cryovial at -150°C.
7. Thaw the cells in a water bath at 37°C. Do not shake the vial. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of complete medium. Seed the cells into a T25 flask.
8. Incubate the cells at 37°C in 5% CO₂. Monitor the cell density and passage the cells when they reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium, 10 minutes

Freezing Procedure Harvest cells and resuspend in freezing medium. Store at -78°C.

Shipping Conditions Store at -78°C.

Storage Conditions Store at -150°C for 196 days.

Genotype / HLA

Sterility PCR genotyping of the cells. Sterility testing: negative.