

OCI-AML3 | 305432

General Information

Description	OCI-AML3 is a human acute myeloid leukemia (AML) cell line established from a patient with FAB M2. OCI-AML3 is a myelomonocytic leukemia cell line. It is characterized by a t(8;21)(q22;q22) translocation resulting in a fusion of the FETC1 and RUNX1 genes. OCI-AML3 cells are highly proliferative and can be cultured in suspension. OCI-AML3 is a myelomonocytic leukemia cell line. It is characterized by a t(8;21)(q22;q22) translocation resulting in a fusion of the FETC1 and RUNX1 genes. OCI-AML3 cells are highly proliferative and can be cultured in suspension.
Organism	Human
Tissue	Leukemia
Disease	Acute Myeloid Leukemia (AML)
Synonyms	OCI-Aml-3, OCI/AML-3, OCI-AML3, OCI/AML3, OCI AML3, OCIAML3, FETC1-RUNX1 fusion - OCI-AML3

Characteristics

Age	57 years
Gender	Male
Ethnicity	White
Morphology	Myelomonocytic
Growth properties	Highly proliferative

Identification

Citation	OCI-AML3 (ATCC CCL-222) Cytion 305432
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1844

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Viruses Ebv -, hbv -, hcv -, hiv-1 -, hiv-2 -, htlv-1/2 -, mlv -, smrv -

Mutational profile 2978 DNMT3A p.Arg882Cys (c.2644C>T) NRAS p.Gln61Leu (c.182A>T) NPM1 p.Trp (c.860_863dupTCTG)

Karyotype 48(45-50)<2n>X,XY+1+5+8der(1)t(1;18)(p11;q11)i(5p)del(13)(q13q21)dup(17)(q21)

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Culture Medium RPMI 1640 2.0 2.0 2.0 2.0 NaHCO3 (820700a)

Supplements 20 FBS

Doubling time 30-40

Split ratio 1:3 1:4

Seeding density 2 5 1/

Fluid renewal 2 3

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly at 37°C in a water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 100 µl of medium.
3. Seed the cells into a 96-well plate (37 wells) at a concentration of 100,000 cells per well.
4. Incubate the cells at 37°C in a humidified CO₂ incubator with 5% CO₂.
5. After 24 hours, replace the medium with fresh medium.
6. Harvest the cells at 70% confluency.
7. Perform a cell count using a hemacytometer.
8. Store the cells at -150°C to -196°C for long-term storage.

Incubation Atmosphere 37 °C, 5% CO₂

Flask Coating No coating

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

OCI-AML3 / HLA

Sterility Sterility testing: PCR