

ARH-77 | 300306

General Information

Description	ARH-77 is a cell line derived from a 33-year-old female patient with acute myeloid leukemia (AML). The cells were established in 1983 and are maintained 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.
Organism	Human
Tissue	Leukemia
Disease	Acute Myeloid Leukemia (AML)
Applications	Research on drug resistance, cell cycle regulation, and leukemogenesis.
Synonyms	ARH 77, ARH77

Cell Characteristics

Age	33 years
Gender	Female
Ethnicity	White
Morphology	Granulocytic
Cell type	B-lymphocyte
Growth properties	Adherent

References and Accession

Citation	ARH-77 (ATCC CCL-1072) Cytion 300306
Biosafety level	2
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1072

Product sheet

ARH-77 | 300306

Cell Line

Antigen expression CD11a +, CD19 +, CD20 +, CD28 +, CD38 -, CD49e, +CD3 -, CD10 -, CD13 -, CD19 +, CD20 +, CD34 -, CD37 +, CD71 +, cyCD79 +, CD80 +, CD138 -, HLA-DR +, sm/cylgG +, sm/cylgM -, sm/cykappa +, sm/cylambda -

Viruses EBV + (EBV), HBV -, HCV -, HIV-1 -, HIV-2 -, HTLV-1/2 -, MLV -, SMRV

Karyotype 46(44-48)2n>xx, +9, del(1)(q23), add(2)(q21), add(3)(p11), der(3)t(2,3)der(9)t(9,17)(q10,q10) - der(x)t(x,1)(q23,p32), del(16)(p13.2) der(3) -der(9)hsr -

Genotype

Culture Medium RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements 10% FBS

Subculturing 1:5

Freeze medium RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a), 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Centrifuge cells at 300 x g for 3 minutes.
 3. Resuspend cells in 15 ml of culture medium.
 4. Seed cells into a T25 flask at 70% confluency.
 5. Incubate cells at 37°C in 5% CO₂.
 6. Monitor cell growth and confluency.
 7. Harvest cells when they reach 70-80% confluency.
 8. Perform subculturing as described in the Subculturing section.

