

HL-60 | 300209

HL-60

Description

HL-60 is a human cell line derived from a 36-year-old male patient with acute myeloid leukemia (AML). The cells are characterized by their morphology and growth properties. HL-60 cells are highly proliferative and are used in various research applications, including drug screening and cell biology studies. The cell line is maintained in suspension culture and is known for its sensitivity to various chemotherapeutic agents. HL-60 cells express high levels of MAPK and other signaling molecules, making them a valuable model for studying these pathways. HL-60 cells are also used in the study of drug resistance mechanisms in AML.

Organism Human

Tissue Blood

Disease Acute Myeloid Leukemia (AML)

Applications Drug screening, Cell biology, Signaling pathway studies

Synonyms HL 60, hl.60, hl.60, hl60

HL-60

Age 36 years

Gender Male

Ethnicity Caucasian

Morphology Myeloid leukemia cells

Cell type Myeloid leukemia cells

Growth properties High proliferation rate

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Citation HL-60 (ATCC CCL-240) | 300209

Product sheet

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Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0002

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Receptors expressed	XXXXXXXXXX Fc
Isoenzymes	G6PD B PGM1 1 PGM3 1 ES-D 1 Me-2 1 AK-1 1 GLO-1 1
Oncogenes	+++
Reverse transcriptase	+++
Products	+++ TNF TNF-alpha TNF alpha

XXXXXXXXXX

Culture Medium	RPMI 1640 2.0 2.0 NaHCO3 (820700a)
Supplements	10% FBS
Subculturing	5 5 6 5 x 10
Seeding density	2 x 10 ⁵
Fluid renewal	2 3

Freeze medium: +10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial in a water bath at 37°C. Transfer the cells to a 15 mL 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 T75 flask and incubate at 37°C in 5% CO2. The next day, replace the medium with fresh complete medium.
2. Thaw the vial in a water bath at 37°C. Transfer the cells to a 15 mL 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 T75 flask and incubate at 37°C in 5% CO2. The next day, replace the medium with fresh complete medium.
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7. Thaw the vial in a water bath at 37°C. Transfer the cells to a 15 mL 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 T75 flask and incubate at 37°C in 5% CO2. The next day, replace the medium with fresh complete medium.
8. Thaw the vial in a water bath at 37°C. Transfer the cells to a 15 mL 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 T75 flask and incubate at 37°C in 5% CO2. The next day, replace the medium with fresh complete medium.

Incubation Atmosphere

37°C, 5% CO2

Flask Coating

None

Freezing Procedure

Resuspend cells in 1 mL of freezing medium and freeze at -80°C.

Shipping Conditions

Store at -80°C.

Storage Conditions

Store at -150 to -196°C.

HLA

Sterility

Cells are tested for mycoplasma contamination (PCR) and are found to be free of contamination.

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██████ HLA

A*: '01:01:01

B*: '57:01:01

C*: '06:02:01

DRB1*: '07:01:01

DQA1*: '02:01:01

DQB1*: '03:03:02

DPB1*: '04:01:01, '13:01:01

E: '01:01:01, '01:09