

KO52

Cat. No. ARC1034, 1×10^6 cells/vial

Description

The KO52 cell line was established from the bone marrow of a patient with multi-lineage CD7-positive acute leukemia. Under laboratory conditions, these cells expressed specific markers to identify its lineage, such as myeloid-associated antigens (CD13, CD14, and CD33) and lymphoid markers (CD2, CD5, and CD7), as well as HLA-DR. The KO52 carries mutations in p53 and N-ras gene, which are typically associated with different stages or subtypes of leukemia. When exposed to G-CSF, IL-2, PMA, or vitamin D3, KO52 cells might exhibit some characteristics of granulocytic or monocytic/macrophage-like differentiations.

Specification

Cell Type: Cancer cell line

Tissue/Organ: Blood (peripheral blood)

Derived from Site: In situ; Bone marrow

Disease: Acute myeloid leukemia

Species: Homo sapiens (Human)

Genetic Background: Japanese

Sex of Donor: Male

Age: 46 years

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use

This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.



Culturing Guidance

Morphology: Lymphocyte-like

Growth Mode: Suspension

Temperature: 37°C

Atmosphere: 5% CO₂

Unpacking and Storage Instructions

1. Visually inspect all packaging components for integrity and verify adequate dry ice.
If any damage is observed, notify Ascent Technical Support immediately.
2. Prioritize transfer to liquid nitrogen vapor phase storage system (-130°C or below).
Secondary option: -80°C mechanical freezer (short-term storage only).
Always maintain temperature strictly below -65°C.

Disclaimer

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This document was last updated on June 20, 2025.