

Product sheet

SKM-1 | 305627

SKM-1

**Description**  
SKM-1 is a cell line derived from a patient with acute myeloid leukemia (AML). The cell line is characterized by a karyotype of 46,XY,del(9)(q13;q22)-der(17)t(17:?) (p13:?). The cell line is maintained in suspension culture 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. SKM-1 is a highly proliferative cell line that is suitable for research in AML.

**Organism** Human

**Tissue** Bone Marrow

**Disease** Acute Myeloid Leukemia

**Synonyms** SKM1

Characteristics

**Age** 76 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Granulocytic

**Growth properties** Suspension

References

**Citation** SKM-1 (SKM-1) Cytion 305627

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_0098

Additional information

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**Antigen expression** CD3-, CD4(+), CD13+, CD14-, CD15+, CD19-, CD33+, HLA-DR+;

**Viruses** EBV-, HBV-, HCV-, HIV-1-, HIV-2-, HTLV-1/2-, MLV-, SMRV-

**Mutational profile** ASXL1, p.Tyr591Ter (c.1773C>A), BCORL1, c.4619-1G>A, p.Lys117Asn (c.351A>C), TP53, p.Arg248Gln (c.743G>A),

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**Culture Medium** RPMI 1640, w: 2.0 mM  $\text{NaH}_2\text{PO}_4$ , w: 2.0 g/L  $\text{NaHCO}_3$  (Cytion 820700a)

**Supplements** 15% FBS

**Dissociation Reagent**

**Doubling time** 48 h

**Split ratio** 1:2 to 1:4

**Seeding density**  $0.3 \times 10^6$  cells/cm<sup>2</sup>

**Fluid renewal** 2 to 3 times per week

**Freeze medium**  $\text{DMEM}$  + 10% FBS + 10% DMSO

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**Thawing and Culturing Cells**

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed cell culture flask containing 5 ml of complete medium. Gently mix the cells and allow them to settle.
2. **Medium:** Use a complete medium containing 10% FBS, 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. Incubate at 37°C with 5% CO<sub>2</sub>.
3. **Seeding:** Seed the cells into a T25 flask containing 25 ml of complete medium. The final cell concentration should be approximately 1.5 x 10<sup>6</sup> cells per flask.
4. **Attachment:** Allow the cells to attach for 24 hours. The medium should be replaced with fresh complete medium.
5. **Passaging:** When the cells reach 70-80% confluence, passage them into a new T25 flask. Use 15 ml of trypsin-EDTA solution for 15 minutes at 37°C. Add 8 ml of complete medium to stop the reaction.
6. **Centrifugation:** Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 ml of complete medium.
7. **Resuspension:** Resuspend the cells in 10 ml of complete medium. Seed them into a new T25 flask.
8. **Storage:** For long-term storage, harvest the cells and store them in liquid nitrogen.

**Incubation Atmosphere**

37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating**

None

**Shipping Conditions**

Store at -78°C. Ship on dry ice.

**Storage Conditions**

Store at -150°C for up to 196 days.

**HLA**

**Sterility**

PCR negative for mycoplasma contamination.

Free of endotoxins, mycoplasmas, and other contaminants.