

AMO-1 | 305525

General information

Description	AMO-1 is a human myeloid cell line derived from a patient with acute myeloid leukemia (AML). The cells are characterized by the presence of the t(8;21) translocation, resulting in the fusion of the APL1 and FUS genes. AMO-1 cells are highly proliferative and are used for the study of AML pathogenesis and drug response. AMO-1 cells are highly sensitive to treatment with Notch3-p53 inhibitors, which induce differentiation and apoptosis. AMO-1 cells are also highly sensitive to treatment with ICAM-1 inhibitors, which induce cell death.
Organism	Human
Tissue	Myeloid
Disease	Acute myeloid leukemia
Synonyms	AMo1, AMO1

Characteristics

Age	64 years
Gender	Male
Ethnicity	Chinese
Morphology	Adherent, epithelial
Growth properties	Highly proliferative

Cell line characteristics

Citation	AMO-1 (Cytion 305525)
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1806

Cell line characteristics

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Mutational profile

IGKV1-8-IGKJ1; IGKV3-20-IGKJ2; BCOR, p.Gln312del (c.932_934AGC[1]) (c.935_937delAGC), p.Alc146Thr (c.436G>A), STAT3, p.Cys712Tyr (c.2135G>A), TET2, p.Gln1699Ter (c.5097G>T)

Cell line

Culture Medium

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

Supplements

20% FBS

Subculturing

Cells are grown in 15 mL tubes. Cells are harvested by centrifugation at 300 x g for 5 min. Cells are resuspended in PBS and counted (3-5 x 10⁵ cells/mL).

Seeding density

3-5 x 10⁵/mL

Fluid renewal

2-3 times per week

Freeze medium

Cells are frozen in FBS (10% FBS) + 10% DMSO. Cells are frozen in 1 mL aliquots and stored at -80°C.

Thawing and Culturing Cells

1. Cells are thawed in a water bath at 37°C. Cells are centrifuged at 300 x g for 5 min. Cells are resuspended in PBS and counted (3-5 x 10⁵ cells/mL).
2. Cells are seeded into 15 mL tubes. Cells are grown in 15 mL tubes. Cells are harvested by centrifugation at 300 x g for 5 min. Cells are resuspended in PBS and counted (3-5 x 10⁵ cells/mL).
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5. Cells are seeded into 15 mL tubes. Cells are grown in 15 mL tubes. Cells are harvested by centrifugation at 300 x g for 5 min. Cells are resuspended in PBS and counted (3-5 x 10⁵ cells/mL).
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Incubation Atmosphere

37°C, 5% CO_2 , humidified

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Shipping
Conditions

Shipping conditions: The product is shipped in a dry ice container. The container must be kept at -78°C.

Storage
Conditions

Storage conditions: The product is stored at -150 to -196 °C. The storage time is 12 months.

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Sterility

The product is sterile. It is not recommended to use PCR. The product is not recommended for use in PCR. The product is not recommended for use in PCR.