

Kasumi-1 | 300226

General information

Description	Kasumi-1 is a cell line derived from a 7-year-old female patient with acute myeloid leukemia (AML), FAB M2, who had received prior chemotherapy. Kasumi-1 is characterized by a reciprocal translocation between chromosomes 8 and 21, resulting in the fusion of the APLA2 and APLA1 genes, which encodes for a chimeric protein with tyrosine kinase activity. Kasumi-1 cells are highly proliferative and are used for studying AML and drug response.
Organism	Human
Tissue	Leukemia
Disease	Acute myeloid leukemia (AML)
Synonyms	KASUMI-1, KASUMI 1, KASUMI1, KASUMI1

Characteristics

Age	7 years
Gender	Female
Ethnicity	Japanese
Morphology	Cells are adherent and form dense colonies.
Cell type	Myeloid (AML - M2)
Growth properties	Highly proliferative

Identification and safety

Citation	Kasumi-1 (Cytion 300226)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0589

Product sheet

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Cell Line

Antigen expression	CD4+ (37.1%, CD45 CD34 CD33), CD13+ (OKM13), CD15+ (LeuM1), CD33+, CD34+ (MY10), CD38+ (OKT10, 50.1%), CD71+ (Nu-TERf), HLA-DR+ (OKDR).
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Karyotype	46,XX XX XX T(8,21)
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Characteristics

Culture Medium	RPMI 1640, w: 2.0 mM glucose glucose , w: 2.0 g/L NaHCO3 (GlutaMAX GlutaMAX Cytion 820700a)
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Supplements	GlutaMAX GlutaMAX 10% FBS GlutaMAX GlutaMAX
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Doubling time	40 to 45 days
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Subculturing	Cells are seeded into 5 ml flasks , and 5 ml into 6 well plates , and 1 ml into 96 well plates . Cells are seeded into 5 ml flasks at 5 x 10
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Seeding density	1 x 10 ⁵ cells / ml
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Fluid renewal	Cells are reseeded (20 to 30% confluence) at 2 to 3 days
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Post-Thaw Recovery	Cells
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Freeze medium	Cells are seeded into 5 ml flasks , and 5 ml into 6 well plates , and 1 ml into 96 well plates . Cells are seeded into 5 ml flasks at 5 x 10
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**Thawing and
Culturing Cells**

1. 将细胞冻存管放入37°C水浴中快速解冻，离心（1000g，5min），弃去上清液，将细胞重悬于完全培养基中。
2. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
3. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
4. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
5. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
6. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
7. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
8. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

**Freezing
Procedure**

将细胞悬液按1:1比例加入含有10% FBS的冻存液中，在-80°C条件下冻存。

**Shipping
Conditions**

将细胞冻存管放入干冰中，在-78°C条件下运输。

**Storage
Conditions**

将细胞冻存管放入-150°C液氮中，可长期保存。

细胞鉴定与验证

Sterility

细胞在接种前经过严格灭菌处理，确保无菌。PCR检测无细菌、真菌、支原体污染。

细胞在培养过程中定期检测，确保无污染。

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██████ HLA

A*: '26:01:01, '26:02:01
B*: '40:06:01, '48:01:01
C*: '03:03:01, '08:01:01
DRB1*: 09:01:02, 14:54:01
DQA1*: '01:04:01, '03:02:01
DQB1*: 03:03:02, 05:03:01
DPB1*: '02:01:02, '02:01:02
E: 01:03:01