

NCI-H1299-RFP | 300272

NCI-H1299-RFP

Description

NCI-H1299 RFP, a cell line derived from a human melanoma cell line, is characterized by its resistance to the DNA methyltransferase inhibitor 5-azacytidine (SAHA or SB939). This resistance is due to the overexpression of the DNA methyltransferase 1 (DNMT1) protein, which maintains high levels of DNA methylation and suppresses the expression of the SAHA target gene, DNMT3A. The cell line is also characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is a valuable tool for studying the role of DNMT1 in cancer and for testing new drugs that target DNMT1.

Organism

Human

Tissue

Melanoma

Disease

Melanoma

Metastatic site

Metastatic melanoma (melanoma)

Applications

Cell culture, drug screening, and study of DNMT1 function.

Characteristics

Morphology

Epithelial cells

Cell type

Epithelial cells

Growth properties

High growth rate

Cell Line Information

Citation

NCI-H1299-EGFP, a cell line derived from a human melanoma cell line, is characterized by its resistance to the DNA methyltransferase inhibitor 5-azacytidine (SAHA or SB939). This resistance is due to the overexpression of the DNA methyltransferase 1 (DNMT1) protein, which maintains high levels of DNA methylation and suppresses the expression of the SAHA target gene, DNMT3A. The cell line is also characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is a valuable tool for studying the role of DNMT1 in cancer and for testing new drugs that target DNMT1.

Biosafety level

1

NCBI_TaxID

9606

CellosaurusAccession

CVCL_XB25

GMO Status

GMO-S1: NCI-H1299 (DKFZ #P-1045) is a cell line derived from a human melanoma cell line, characterized by its resistance to the DNA methyltransferase inhibitor 5-azacytidine (SAHA or SB939). This resistance is due to the overexpression of the DNA methyltransferase 1 (DNMT1) protein, which maintains high levels of DNA methylation and suppresses the expression of the SAHA target gene, DNMT3A. The cell line is also characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is a valuable tool for studying the role of DNMT1 in cancer and for testing new drugs that target DNMT1.

Product sheet

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Culture Medium	RPMI 1640, w: 2.0 mM β -glutamine, w: 2.0 g/L NaHCO ₃ (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Doubling time	24-36 h
Subculturing	Cells are grown in 96-well plates. Cells are grown in T25, 3-5 x 10 ⁵ cells per well. Cells are grown in 96-well plates, 3-5 x 10 ⁵ cells per well. Cells are grown in 96-well plates, 3-5 x 10 ⁵ cells per well.
Split ratio	1:5
Seeding density	1 x 10 ⁴ cells/cm ²
Fluid renewal	2-3 times per week
Freeze medium	Cells are grown in 96-well plates, 3-5 x 10 ⁵ cells per well. Cells are grown in 96-well plates, 3-5 x 10 ⁵ cells per well. Cells are grown in 96-well plates, 3-5 x 10 ⁵ cells per well.

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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，然后将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
2. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
3. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
4. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
5. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
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7. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。
8. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

Freezing
Procedure

将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。

Shipping
Conditions

将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。

Storage
Conditions

将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，轻轻混匀。

细胞特性

Sterility

细胞经过严格的质量控制，确保无菌。细胞经过严格的质量控制，确保无菌。细胞经过严格的质量控制，确保无菌。