

NCI-H1650 | 305059

General information

Description	NCI-H1650 is a cell line derived from a primary lung adenocarcinoma (NSCLC) patient, characterized by a high degree of tumorigenicity, rapid growth, and resistance to apoptosis. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). PTEN is a tumor suppressor gene that is frequently mutated in various cancers, including NSCLC. In NCI-H1650, PTEN is overexpressed, leading to constitutive activation of the PI3K/AKT pathway, which promotes cell survival and proliferation. NCI-H1650 cells are highly tumorigenic and can form xenografts in immunodeficient mice. The cell line is also characterized by its sensitivity to certain chemotherapeutic agents, including cisplatin and paclitaxel.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Metastatic site	Adipose tissue
Synonyms	NCI-H1650, H-1650, H1650_CO, NCIH1650

Cell characteristics

Age	27 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell culture conditions

Citation	NCI-H1650 (Cytion 305059)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1483

NCI-H1650 | 305059

NCI-H1650 - Human melanoma

NCI-H1650

Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
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Supplements	10% FBS
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Dissociation Reagent	Trypsin
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Subculturing	Cells are grown in 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 70-80% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
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Fluid renewal	2-3 times per week
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Freeze medium	Cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 10% DMSO. The medium is changed every 3-5 days.
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Thawing and Culturing Cells	- Cells are thawed in a water bath at 37°C. - Cells are centrifuged at 300 x g for 5 minutes. - Cells are resuspended in RPMI 1640 medium supplemented with 10% FBS. - Cells are seeded into 25 cm² flasks. - Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. - Cells are trypsinized and seeded into new flasks. - Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. - Cells are trypsinized and seeded into new flasks.
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Incubation Atmosphere	37°C, 5% CO_2 , humidified
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NCI-H1650 | 305059

Flask Coating

Flask Coating

Freezing Procedure

Freezing Procedure: 1. Harvest cells and resuspend in 10 ml of freezing medium. 2. Aliquot into 1 ml vials. 3. Freeze at -80°C.

Shipping Conditions

Shipping Conditions: 1. Ship at -80°C. 2. Use dry ice for shipping.

Storage Conditions

Storage Conditions: 1. Store at -150 to -196°C. 2. Use within 12 months.

NCI-H1650 | 305059

Sterility

Sterility: 1. The cells are supplied in a sterile, sealed vial. 2. The cells are free of mycoplasma contamination. 3. The cells are free of endotoxins.