

Product sheet

NCI-H157 | 300387

NCI-H157

Description

NCI-H157 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is a highly tumorigenic cell line that grows in suspension. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 10 ng/ml insulin-like growth factor 1 (IGF1). The cell line is characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is also characterized by its high sensitivity to cisplatin (DDP) and its resistance to gefitinib. The cell line is also characterized by its high sensitivity to HIF-1α inhibitors and its resistance to Raf/MEK/ERK inhibitors.

NCI-H157 cell line is derived from a patient with non-small cell lung cancer (NSCLC). The cell line is characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is also characterized by its high sensitivity to cisplatin (DDP), its resistance to gefitinib, and its high sensitivity to HIF-1α inhibitors and Raf/MEK/ERK inhibitors.

NCI-H157 cell line is derived from a patient with non-small cell lung cancer (NSCLC). The cell line is characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is also characterized by its high sensitivity to cisplatin (DDP), its resistance to gefitinib, and its high sensitivity to HIF-1α inhibitors and Raf/MEK/ERK inhibitors.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Synonyms NCI H157, H157, H-157, NCI-157

Cell Line Characteristics

Age 59 years

Gender Male

Growth properties High tumorigenicity, grows in suspension

Cell Line Source

Citation NCI-H157 (ATCC CCL-157) | Cytion 300387

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0463

Cell Line Identification

Cell Line

Product sheet

NCI-H157 | 300387

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are cultured in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol. Cells are grown in T25 flasks, 3-5 x 10⁶ cells per flask. Cells are harvested by trypsinization and centrifugation at 300 x g for 5 minutes.

Freeze medium RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol (10% FBS) + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Centrifuge cells at 300 x g for 5 minutes.
 3. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.
 4. Seed cells into T25 flasks at 70% confluency.
 5. Incubate cells for 15-24 hours in a 37°C incubator.
 6. Harvest cells by trypsinization and centrifugation at 300 x g for 5 minutes.
 7. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.
 8. Seed cells into T25 flasks at 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Freezing Procedure Cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol (10% FBS) + 10% DMSO at -78°C.

Product sheet

NCI-H157 | 300387

Shipping Conditions

Store at -78°C

Storage Conditions

Store at -150 to 196 °C

HLA

Sterility

PCR
Sterility