

Product sheet

NCI-H1650 | 305059

General Information

Description NCI-H1650 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by a mutation in the PTEN gene, which is located on chromosome 10q23.3. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. It is a highly proliferative cell line with a doubling time of approximately 24 hours. The cell line is sensitive to cisplatin and paclitaxel. The cell line is also characterized by the presence of a copy number gain of chromosome 12 and a copy number loss of chromosome 10.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Metastatic site Lung

Synonyms NCI-H1650, H-1650, H1650_CO, NCIH1650

Cell Characteristics

Age 27 years

Gender Male

Ethnicity African American

Morphology Epithelial

Growth properties Adherent

References

Citation NCI-H1650 (ATCC CCL-1483) | Cytion 305059

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_1483

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NCI-H1650 - NCI-H1650

NCI-H1650

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 Seed cells into 25 cm² flasks in RPMI 1640 + 10% FBS. When cells reach 70-80% confluency, trypsinize and seed into new flasks.

Fluid renewal 2-3 times per week

Freeze medium RPMI 1640 + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Centrifuge at 300 x g for 3 minutes.
 3. Resuspend cells in RPMI 1640 + 10% FBS.
 4. Seed cells into flasks at 70% confluency.
 5. Incubate at 37°C in 5% CO₂.
 6. Monitor cell growth and confluency.
 7. Harvest cells when reaching 70-80% confluency.
 8. Perform subculturing or freezing.

Incubation Atmosphere 37°C, 5% CO₂

