

Product sheet

NCI-H69AR | 305840

NCI-H69AR

Description
NCI-H69AR is a human small cell lung carcinoma (SCLC) cell line derived from NCI-H69. It is characterized by its neuroendocrine phenotype and high expression of P-glycoprotein (P-gp). The cell line is highly sensitive to platinum-based chemotherapy and is used as a model for studying drug resistance mechanisms in SCLC.

Organism Human

Tissue Lung

Disease Small cell lung carcinoma

Metastatic site Liver, Brain, Bone

Synonyms NCI-H69 AR, NCI-H69/AR, H69AR, H69AR, H-69AR

Cell Characteristics

Age 55 days

Gender Male

Ethnicity Caucasian

Morphology Round to oval cells

Cell type Neuroendocrine

Growth properties High growth rate

References

Citation NCI-H69AR (ATCC CCL-221) | 305840

Biosafety level 1

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Remove the vial and centrifuge at 300 × g for 3 minutes. Discard the supernatant and resuspend the cells in 10 mL of complete medium. Seed the cells into a T75 flask containing 50 mL of complete medium.
2. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂.
3. When the cells reach 70% confluence, passage them into a new T75 flask.
4. The cells should reach confluence within 10-15 days. Harvest the cells for analysis.
5. For long-term storage, harvest the cells and resuspend them in 1 mL of freezing medium. Store at -150°C.
6. Thaw the cells rapidly in a 37°C water bath and resuspend them in 10 mL of complete medium.
7. Seed the cells into a T75 flask containing 50 mL of complete medium.
8. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

NCI-H69AR / HLA

Sterility The cells are tested for mycoplasma contamination using PCR.