

NCI-H358 | 300430

General Information

Description NCI-H358 is a human epidermal carcinoma cell line. It is derived from a 68-year-old male patient with a squamous cell carcinoma of the head and neck. The cell line is characterized by its high growth rate and its ability to form colonies in soft agar. It is a highly tumorigenic cell line that is used in various preclinical studies. The cell line is sensitive to cisplatin and paclitaxel. The cell line is also characterized by its high expression of EGFR (EGFR) and p53. The cell line is also characterized by its high expression of p53. The cell line is also characterized by its high expression of p53.

Organism Human

Tissue Epithelial

Disease Squamous cell carcinoma of the head and neck

Synonyms NCI-H358, H-358, NCIH358, NCIH358

Characteristics

Age 68 years

Gender Male

Ethnicity Caucasian

Cell type Epithelial

Growth properties High growth rate, tumorigenic

Identification

Citation NCI-H358 (NCI-H358) | 300430

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_1559

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The seeding density is approximately 1.5 x 10⁵ cells per flask.
4. Incubate the cells in a humidified 5% CO₂ atmosphere at 37°C. The cells should reach 70% confluency within 7-8 days.
5. Once the cells are confluent, they can be used for experiments or passaged into new flasks.
6. For passaging, trypsinize the cells and seed them into a new T25 flask with 10 ml of pre-warmed medium.
7. The cells should reach 70% confluency within 7-8 days.
8. The cells can be cryopreserved for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating Not required

Freezing Procedure Seed cells into a T25 flask at 1.5 x 10⁵ cells per flask. Once confluent, trypsinize and seed into a 2 ml cryovial with 100 µl of freezing medium. Freeze at -80°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

NCI-H358 / HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR testing is available upon request.