

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 tumorigenicity and its ability to form xenografts in immunodeficient mice. NCI-H358 cells are highly sensitive to EGFR inhibitors and p53 inhibitors.

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 Adherent

Identification

Citation NCI-H358 (ATCC CCL-1559) | 300430

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_1559

NCI-H358 | 300430

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Protein expression UGT - GST + PST + p53 -

Tumorigenic XXXX XX XXXXXXXX XXXXXXXX

Mutational profile P53 XXXXXXXX XXXXXXXX P53 XXXXXXXX

XXXXXXXXXX

Culture Medium RPMI 1640 X 2.0 XXXXX XXXXX XXXXXXXXXXXX XXXXXXXX X 2.0 X/XXX NaHCO3 (XXX XXXXXXXX 820700a XX XXXXXXXX)

Supplements XX XXXXXXXX XXXXXXX X 10X XX XX FBS

Dissociation Reagent XXXXXXX

Subculturing XX XXXXXXX XXXXXXX XXXXXXX XX XXXXXXX XXXXXXXX XXXXXXX XXXXXXXX PBS XXXX XXXXXXX XX XXXXXXXXXX XXXXXXXXXXXX XXXXXXXX XXXXXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXXXXXXX XXXXXXX XX XX XXXX (XXX XX XXX FBS) + 10% DMSO XX XXX XXXXXXX XX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX

NCI-H358 | 300430

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified 5% CO₂ atmosphere until they reach 70% confluency.
5. Pass the cells into a T75 flask containing 15 ml of pre-warmed medium every 8 days.
6. Harvest the cells into a 300 x 3 mm dish containing 3 ml of pre-warmed medium.
7. Seed the cells into a 10 ml well of a 96-well plate containing 100 µl of pre-warmed medium.
8. Incubate the cells at 37°C in a humidified 5% CO₂ atmosphere until they reach 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Freezing Procedure Harvest cells into a 300 x 3 mm dish containing 3 ml of pre-warmed medium. Pellet cells by centrifugation at 300 x g for 3 minutes. Resuspend the cells in 1 ml of freezing medium. Aliquot into 1 ml vials and store at -196°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

NCI-H358 / HLA

Sterility The cells are free of mycoplasma contamination. The cells are tested for mycoplasma contamination using PCR.

XXXXXXXX NCI-H358 | 300430

XXXXXXXX XXXXXXXXXXXX STRAmelogenin: x/y

CSF1PO: 11/12

D13S317: 8/12

D16S539: 12/13

D5S818: 10/12

D7S820: 10/11

TH01: 6

TPOX: 8/9

vWA: 17

D3S1358: 14/18

D21S11: 28,3

D18S51: 14

Penta E: 18

Penta D: 10/13

D8S1179: 13/14

FGA: 20/21