

NCI-H1373 | 305597

General information

Description	NCI-H1373 is a cell line derived from a primary lung adenocarcinoma (NSCLC) cell line, which has a KRAS G12C mutation. The cell line is maintained in DMEM/F12 medium supplemented with 10% FBS. The cell line is characterized by its high growth rate and its ability to form colonies in soft agar. The cell line is also characterized by its sensitivity to the KRAS inhibitor, ASP2453. The cell line is also characterized by its sensitivity to the PARP inhibitor, PARP7. The cell line is also characterized by its sensitivity to the CRISPR/Cas9 system.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Synonyms	H1373, H-1373, NCIH1373

Cell characteristics

Age	56 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell line identification

Citation	NCI-H1373 (Cytion 305597)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1465

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NCI-H1373 - NCI-H1373

Mutational profile

KRAS, p.Gly12Cys (c.34G>T), TP53, p.Pro47Leu (c.140C>T),

NCI-H1373

Culture Medium

RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements

10% FBS

Dissociation Reagent

Subculturing

NCI-H1373 cells are grown in RPMI 1640 medium supplemented with 10% FBS. Cells are harvested by trypsinization with Trypsin-EDTA (Cytion 820700a) and resuspended in PBS. Cells are seeded into new flasks at a density of 300,000 cells per flask.

Fluid renewal

2-3 times per week

Freeze medium

NCI-H1373 cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 10% DMSO. Cells are seeded into new flasks at a density of 300,000 cells per flask.

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer cells to a sterile tube and centrifuge at 300 x g for 5 minutes.
2. Remove supernatant and resuspend cells in RPMI 1640 medium supplemented with 10% FBS. Seed cells into a new flask at a density of 300,000 cells per flask.
3. Incubate cells in a humidified incubator at 37°C with 5% CO₂. Monitor cell growth and morphology.
4. Once cells have reached confluence, harvest cells by trypsinization with Trypsin-EDTA (Cytion 820700a) and resuspend in PBS.
5. Seed cells into a new flask at a density of 300,000 cells per flask.
6. Monitor cell growth and morphology.
7. Once cells have reached confluence, harvest cells by trypsinization with Trypsin-EDTA (Cytion 820700a) and resuspend in PBS.
8. Seed cells into a new flask at a density of 300,000 cells per flask.

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**Incubation
Atmosphere** 37°C, 5%_{CO2}, humidified air

**Shipping
Conditions** Cryo vials: liquid nitrogen vapor phase, dry ice, 2-8°C or -78°C

**Storage
Conditions** Cryo vials: liquid nitrogen vapor phase, dry ice, -150 to -196°C

NCI-H1373 cells are not certified to be free of mycoplasma contamination.

Sterility

NCI-H1373 cells are not certified to be free of mycoplasma contamination. PCR testing of cells is recommended to confirm the absence of mycoplasma contamination. Cells are not certified to be free of mycoplasma contamination. Cells are not certified to be free of mycoplasma contamination.