

NCI-H526 | 305278

General information

Description	NCI-H526 is a human small cell lung carcinoma (SCLC) cell line derived from a 55-year-old male patient. It is characterized by high growth rate, anchorage dependence, and tumorigenicity in nude mice. NCI-H526 cells are highly sensitive to platinum-based chemotherapy and radiation. NCI-H526 cells are used for studying the biology of SCLC and for testing new drugs.
Organism	Human
Tissue	Lung
Disease	Small cell lung carcinoma
Metastatic site	Brain
Synonyms	H526, H-526, NCIH526

Cell characteristics

Age	55 years
Gender	Male
Ethnicity	White
Morphology	Small cell
Growth properties	High growth rate

Cell line identification

Citation	NCI-H526 (Cytion 305278)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1569

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NCI-H526 - NCI-H526

Oncogenes	Myc+, myb+, fes+, fms+, raf+, ras+
Tumorigenic	Yes, tumorigenic in nude mice
Mutational profile	TP53, c.97-1G>C (IVS3-1G>C), TP53

NCI-H526

Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
Supplements	10% FBS
Subculturing	NCI-H526 cells are grown in RPMI 1640 medium supplemented with 10% FBS. Cells are passaged by trypsinization and seeding into new flasks.
Fluid renewal	2-3 times per week
Freeze medium	NCI-H526 cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 10% DMSO.

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS.
4. Seed cells into a T25 flask.
5. Incubate cells in a humidified incubator at 37°C.
6. Monitor cell growth and confluency.
7. Pass cells when they reach 70-80% confluency.
8. Store cells in liquid nitrogen for long-term storage.

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Incubation
Atmosphere

37°C, 5%_{CO2}, humidified air

Flask Coating

None

Freezing
Procedure

Cells are seeded into 24-well plates and grown to confluence. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 mL vials and frozen at -78°C.

Shipping
Conditions

Cells are shipped on dry ice at -78°C.

Storage
Conditions

Cells are stored at -150 to -196 °C in liquid nitrogen.

NCI-H526 Cell Line

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for sterility using a sterility test kit. Cells are found to be free of mycoplasma and sterile.