

Product sheet

NCI-H526 | 305278

NCI-H526

**Description** NCI-H526 is a human small cell lung carcinoma (SCLC) cell line. It is derived from a 55-year-old male patient with a history of smoking. The cell line is characterized by its high growth rate and its ability to form neuroendocrine tumors. It is commonly used in research to study the biology of SCLC and to test potential therapies.

**Organism** Human

**Tissue** Lung

**Disease** Small cell lung carcinoma

**Metastatic site** Lung

**Synonyms** H526, H-526, NCIH526

NCI-H526

**Age** 55 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** High growth rate, neuroendocrine

NCI-H526

**Citation** NCI-H526 (NCI-H526) Cytion 305278

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1569

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## Characteristics

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

## Media

<b>Culture Medium</b>	RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO3 (Cytion 820700a)
<b>Supplements</b>	10% FBS
<b>Subculturing</b>	1:2 to 1:10
<b>Fluid renewal</b>	2-3 times per week
<b>Freeze medium</b>	DMEM (10% FBS) + 10% DMSO

## Thawing and Culturing Cells

1. Thaw cells quickly in a 37°C water bath.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 10 ml of DMEM (10% FBS) and seed into a T25 flask.
4. Allow cells to attach for 24 hours before refreshing medium.
5. Refresh medium every 2-3 days.
6. Harvest cells when confluency reaches 70-80%.
7. Seed cells into a T75 flask for expansion.
8. Harvest cells when confluency reaches 70-80%.

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**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>,  $\alpha$ -MEM

**Flask Coating** Cell culture medium, 10% FBS

**Freezing Procedure** 10% FBS, 10% DMSO, 80% MEM, -78°C

**Shipping Conditions** 10% FBS, 10% DMSO, 80% MEM, -78°C

**Storage Conditions** 10% FBS, 10% DMSO, 80% MEM, -150 to 196 K

NCI-H526 / HLA

**Sterility** PCR,  $\alpha$ -MEM, 10% FBS, 10% DMSO, 80% MEM