

Product sheet

NCI-H196 | 300390

General Information

Description	NCI-H196 is a human small cell lung carcinoma (SCLC) cell line, established from a 68-year-old male patient with extensive-stage disease. The cell line is characterized by its neuroendocrine phenotype and high proliferation rate. It is commonly used for research in SCLC biology and drug response.
Organism	Human
Tissue	Lung
Disease	Small cell lung carcinoma
Metastatic site	Adipose tissue
Applications	Drug response, cell cycle analysis, gene expression
Synonyms	NCI-H196, H-196, NCIH196

Cell Line Characteristics

Age	68 years
Gender	Male
Ethnicity	White
Growth properties	Adipose

Identification and Accession

Citation	NCI-H196 (ATCC CCL-221) Cytion 300390
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1509

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NCI-H196

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Seed cells into 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 70-80% confluency, trypsinize and seed into fresh flasks.

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a pre-warmed medium.
2. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in fresh medium.
3. Seed cells into a 25 cm² flask with 37 mL of medium.
4. Allow cells to attach for 24 hours before adding supplements.
5. Monitor cell growth and density.
6. Harvest cells when they reach 70-80% confluency.
7. Perform a cell count to determine the number of cells.
8. Store cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Adherent cells

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Freezing Procedure [redacted] -78°C

Shipping Conditions [redacted] -78°C

Storage Conditions [redacted] -150 °C 196 [redacted]

[redacted] / [redacted] / HLA

Sterility [redacted] PCR [redacted]
[redacted], [redacted], [redacted]