

NCI-H196 | 300390

General Information

Description	NCI-H196 is a human small cell lung carcinoma (SCLC) cell line derived from a 68-year-old male patient with a primary tumor in the right lung. The cell line is characterized by its high growth rate and sensitivity to platinum-based chemotherapy. It is commonly used in preclinical studies to evaluate the efficacy of novel SCLC therapies.
Organism	Human
Tissue	Lung
Disease	Small cell lung carcinoma
Metastatic site	Brain, bone, lymph node
Applications	In vitro drug screening, cell viability assays, molecular biology studies
Synonyms	NCI-H196, H-196, NCIH196

Cell Line Characteristics

Age	68 years
Gender	Male
Ethnicity	White
Growth properties	Adherent

Identification and Accession

Citation	NCI-H196 (ATCC CCL-221) Cytion 300390
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	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.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 37°C pre-warmed RPMI 1640 medium supplemented with 10% FBS.
4. Seed cells into fresh flasks at 70% confluency.
5. Incubate cells in a 37°C incubator with 5% CO₂.
6. Monitor cell growth and confluency.
7. Subculture cells when they reach 70-80% confluency.
8. Maintain cells in a 37°C incubator with 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

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Freezing Procedure ... -78°C

Shipping Conditions ... -78°C

Storage Conditions ... -150 °C 196

STR / HLA

Sterility ...

- STR**
- Amelogenin:** x,y
- CSF1PO:** 10
- D13S317:** 9
- D16S539:** 11
- D5S818:** 12
- D7S820:** 10,11
- TH01:** 6
- TPOX:** 11
- vWA:** 19
- D3S1358:** 15
- D18S51:** 17,19
- Penta E:** 8,12
- Penta D:** 10
- D8S1179:** 13,15
- FGA:** 22,23
- D6S1043:** 13
- D2S1338:** 17,2
- D12S391:** 19
- D19S433:** 14
- PEZ6:** 1