

Product sheet

NCI-H2195 | 305259

General Information

**Description**  
NCI-H2195 is a human small cell lung carcinoma (SCLC) cell line. It is a neuroendocrine tumor derived from a 67-year-old male patient. The cell line is characterized by its high growth rate and ability to form neuroendocrine tumors in nude mice. It is a highly metastatic cell line, capable of forming metastases in various organs, including the brain, liver, and lung. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin.

**Organism** Human

**Tissue** Lung

**Disease** Small cell lung carcinoma

**Metastatic site** Brain, Liver, Lung

**Synonyms** H2195, H-2195

Cell Culture

**Age** 67 years

**Gender** Male

**Ethnicity** Caucasian

**Growth properties** High growth rate

Characterization

**Citation** NCI-H2195 (ATCC CCL-221) | Cytion 305259

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1538

Additional Information

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**Mutational profile** TP53, p.Val157Phe (c.469G>T)

NCI-H2195

**Culture Medium** DMEM:Ham's F12 (1:1), w: 3.1 g/L  $\beta$ -mercaptoethanol, w: 1.6 mM L-ascorbic acid, w: 15 mM HEPES, w: 1.0 mM  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , w: 1.2 g/L  $\text{NaHCO}_3$  820400a)

**Supplements**  $\beta$ -mercaptoethanol 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid

**Dissociation Reagent**  $\beta$ -mercaptoethanol

**Subculturing** Cells are cultured in DMEM:Ham's F12 (1:1) supplemented with 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid. Cells are passaged using  $\beta$ -mercaptoethanol.

**Split ratio** 1:2 or 1:3

**Fluid renewal**  $\beta$ -mercaptoethanol

**Freeze medium** DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells in a water bath at 37°C. Add 10 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid.
2. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in 1 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid.
3. Seed cells into a 96-well plate (37 wells) at a density of 100,000 cells per well.
4. Incubate cells for 24 hours. Remove the medium and replace with fresh DMEM:Ham's F12 (1:1) supplemented with 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid.
5. Harvest cells at 15' and 8'.
6. Harvest cells at 300 x g for 3 minutes. Resuspend cells in 1 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS, ITS+,  $\beta$ -mercaptoethanol 10 nM,  $\beta$ -mercaptoethanol 10 nM, L-ascorbic acid.
7. Harvest cells at 10'.
8. Harvest cells at 10'.

