

Product sheet

NCI-H226 | 305091

NCI-H226

Description NCI-H226 (NSCLC) is a cell line derived from a patient with non-small cell lung carcinoma. It is characterized by its ability to grow in soft agar and its sensitivity to cisplatin. NCI-H226 is a highly metastatic cell line that is commonly used in preclinical studies of lung cancer treatment. It is derived from a patient with a primary tumor in the lung and metastases to the brain, bone, and lymph nodes. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. NCI-H226 is a highly metastatic cell line that is commonly used in preclinical studies of lung cancer treatment. It is derived from a patient with a primary tumor in the lung and metastases to the brain, bone, and lymph nodes. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.

Organism Human

Tissue Lung

Disease Non-small cell lung carcinoma

Synonyms NCI-H226, NCI.H226, NCI H226, H-226, HUT-226, HUT 226, NCIH226

Characteristics

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

References

Citation NCI-H226 (NCI-H226) Cytion 305091

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1544

Additional information

Keywords

Product sheet

NCI-H226 | 305091

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 Cells are cultured in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol. Cells are grown in T25 flasks, 3-5 x 10⁶ cells per flask. Cells are harvested by trypsinization and centrifugation at 300 x g for 5 minutes. Cells are resuspended in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.

Split ratio 1:2 to 1:4

Fluid renewal 2 to 3 times per week

Freeze medium RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol (Cytion 820700a) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a pre-warmed RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.
2. Centrifuge cells at 300 x g for 5 minutes. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.
3. Seed cells into T25 flasks at a density of 1 x 10⁶ cells per flask. Incubate cells at 37°C in 5% CO₂.
4. Monitor cell growth and confluency. Cells should reach 70% confluency within 24-48 hours.
5. Once cells are confluent, harvest cells by trypsinization and centrifugation at 300 x g for 5 minutes. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.
6. Seed cells into T25 flasks at a density of 1 x 10⁶ cells per flask. Incubate cells at 37°C in 5% CO₂.
7. Monitor cell growth and confluency. Cells should reach 70% confluency within 24-48 hours.
8. Once cells are confluent, harvest cells by trypsinization and centrifugation at 300 x g for 5 minutes. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS and 2.0 mM β -mercaptoethanol.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Product sheet

NCI-H226 | 305091

Freezing Procedure [redacted] -78°C

Shipping Conditions [redacted] -78°C

Storage Conditions [redacted] -150 to 196

[redacted] / [redacted] / HLA

Sterility [redacted]
[redacted]