

Product sheet

NCI-H2122 | 305600

General Information

Description NCI-H2122 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by the presence of a KRAS mutation and the absence of a TP53 mutation. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. It is a highly proliferative cell line with a doubling time of approximately 46 hours. The cell line is sensitive to cisplatin and paclitaxel. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. It is a highly proliferative cell line with a doubling time of approximately 46 hours. The cell line is sensitive to cisplatin and paclitaxel.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Metastatic site Lung

Synonyms H2122, H-2122, NCIH2122

Characteristics

Age 46 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial, adherent

Growth properties High

References

Citation NCI-H2122 (ATCC CCL-221) | Cytion 305600

Biosafety level 1

NCBI_TaxID 9606

NCI-H2122 | 305600

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in 5% CO₂ until they reach 70% confluency.
5. Harvest the cells by trypsinization and resuspend in 15 ml of medium.
6. Seed the cells into a T25 flask containing 37 ml of pre-warmed medium.
7. Incubate the cells at 37°C in 5% CO₂ until they reach 70% confluency.
8. Harvest the cells by trypsinization and resuspend in 15 ml of medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating None

Freezing Procedure Harvest cells by trypsinization and resuspend in 1 ml of freezing medium. Aliquot into 1 ml vials and freeze at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for up to 196 months.

Genetic Markers / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. They are also free of endotoxins.