

Product sheet

NCI-H3122 | 300484

General Information

Description NCI-H3122 is a cell line derived from a patient with Non-Small Cell Lung Cancer (NSCLC). It is characterized by the presence of EML4-ALK rearrangement and ALK amplification. The cell line is highly sensitive to ALK inhibitors and is used for studying the mechanism of action of these drugs. It is also used for testing of novel ALK inhibitors and for studying the role of ALK in lung cancer progression.

Organism Human

Tissue Lung

Disease Non-Small Cell Lung Cancer

Synonyms NFI-H3122, H-3122, NCIH3122

Characteristics

Gender Male

Ethnicity Caucasian

Growth properties Adherent

Identification

Citation NCI-H3122 (ATCC CCL-220) | 300484

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_5160

Additional Information

References

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Culture Medium RPMI 1640 (2.0 mM Glucose, 2.0 mM NaHCO₃ (820700a))

Supplements 10% FBS

Dissociation Reagent

Subculturing

Freeze medium (10% FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly at 37°C.
2. Centrifuge at 300 × g for 3 minutes.
3. Wash cells with PBS.
4. Resuspend cells in 70% FBS.
5. Seed cells into a T75 flask.
6. Incubate at 37°C.
7. Monitor cell growth.
8. Harvest cells when they reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating

Freezing Procedure

