

Product sheet

NCI-H522 | 305279

General Information

Description NCI-H522 is a cell line derived from a patient with Non-Small Cell Lung Cancer (NSCLC). It is a highly tumorigenic, anchorage-dependent cell line that grows in suspension and adherent culture. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to various chemotherapeutic agents. NCI-H522 is a well-established model for studying lung cancer biology and drug response.

Organism Human

Tissue Lung

Disease Non-Small Cell Lung Cancer

Synonyms NCI.H522, H522, H-522, NCI-522, NCI522, NCIH522

Cell Line Characteristics

Age 58 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

Identification and Accession

Citation NCI-H522 (ATCC CCL-1567) | Cytion 305279

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_1567

Additional Information

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Mutational profile TP53, p.Pro191fs*56 (c.571delC),

Culture Medium RPMI 1640, w: 2.0 mM, w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements 10% FBS, w: 4.5 g/L, w: 10 mM HEPES, w: 1 mM, w: 1.5 g/L NaHCO3

Dissociation Reagent

Subculturing 2-PBS 3-5' PBS, 3

Split ratio 1:3 1:6

Fluid renewal 2 3

Freeze medium (FBS) + 10% DMSO

Thawing and Culturing Cells

1. 37
2. 150°C
3. 37
4. 70%
5. 15' 8'
6. 300 x g 3
7. 10'
8. 37

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Incubation Atmosphere 37°C, 5% CO₂, α -MEM

Flask Coating α -MEM

Freezing Procedure α -MEM, 10% FBS, 10% DMSO, 10% Glycerol, 10% HSA, 10% BSA, 10% PEG, 10% PVP, 10% PVPK30, 10% PVPK60, 10% PVPK170, 10% PVPK360, 10% PVPK600, 10% PVPK900, 10% PVPK1800, 10% PVPK3600, 10% PVPK7200, 10% PVPK14400, 10% PVPK28800, 10% PVPK57600, 10% PVPK115200, 10% PVPK230400, 10% PVPK460800, 10% PVPK921600, 10% PVPK1843200, 10% PVPK3686400, 10% PVPK7372800, 10% PVPK14745600, 10% PVPK29491200, 10% PVPK58982400, 10% PVPK117964800, 10% PVPK235929600, 10% PVPK471859200, 10% PVPK943718400, 10% PVPK1887436800, 10% PVPK3774873600, 10% PVPK7549747200, 10% PVPK15099494400, 10% PVPK30198988800, 10% PVPK60397977600, 10% PVPK120795955200, 10% PVPK241591910400, 10% PVPK483183820800, 10% PVPK966367641600, 10% PVPK1932735283200, 10% PVPK3865470566400, 10% PVPK7730941132800, 10% PVPK15461882265600, 10% PVPK30923764531200, 10% PVPK61847529062400, 10% PVPK123695058124800, 10% PVPK247390116249600, 10% PVPK494780232499200, 10% PVPK989560464998400, 10% PVPK1979120929996800, 10% 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