NCI-H526

305278

GENERAL INFORMATION

Description

NCI-H526 □胞系源自一名成人患者的小□胞肺癌（SCLC）。該□胞系廣泛應用於癌症研究，特別是在小□胞肺癌的研究領域；此類癌症以其侵襲性強及預後不良而著稱。 NCI-H526 □胞為探究小□胞肺癌的生物學特性、理解其快速生長與轉移機制，以及開發新的治療策略，提供了關鍵的模型。

NCI-H526 □胞呈現小□胞肺癌特有的圓形、懸浮生長形態。它們表達神經內分泌標記物，例如色格林 A（chromogranin A）和突觸素（synaptophysin），這些標記物是小□胞肺癌的典型特徵。 研究人員利用 NCI-H526 □胞研究與小□胞肺癌相關的遺傳及表觀遺傳變化，包括 TP53 和 RB1 基因的變異——這兩種基因在此類癌症中經常發生突變。 這些□胞亦被用於探索驅動小□胞肺癌進展的訊號傳導路徑，例如 Notch、PI3K/Akt 及 Hedgehog 路徑。在藥物發現與開發過程中， NCI-H526 □胞被用於評估化療藥物、標靶療法及新型治療組合的療效。 NCI-H526 □胞系在小□胞肺癌研究中的關鍵地位，凸顯了其在深化我們對這種棘手疾病理解，以及開發更有效治療方法方面的的重要性。

Tissue	肺
Disease	小□胞癌
Metastatic site	骨髓

Synonyms

- H526
- H-526
- NCIH526

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Suspension
Biosafety level	1

CHARACTERISTICS

Morphology	上皮性
Tumourigenic	是的，在無胸腺小鼠中

IDENTIFIERS

Citation

NCI-H526（Cytion 型號 305278）

NCBI TaxID	9606
Cellosaurus	CVCL_1569

EXPRESSION AND SUSCEPTIBILITY

Oncogenes

Myc+、myb+、fes+、fms+、raf+、ras+

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Banking information
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IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

Mutational profile

□□□TP53□c.97-1G>C□IVS3-1G>C□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□□ 2.0 mM □□□□□□□□ 2.0 g/L $NaHCO_3$□Cytion □□□□ 820700a□

Incubation atmosphere	37°C□5% CO_2□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Subculturing

□□ 22 □□□□□□□□□□□□□□□□

Fluid renewal	□□ 2 □ 3 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

□□□□ PCR □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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Freeze medium	□□□□□□□□□□□□□□□□□□□□□□□ FBS□+ 10% DMSO □□□□□□□□□□□□□□ CM-1 □Cytion □□ 800100□□

Storage conditions

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Shipping conditions

□□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	55□
Ethnicity	□□□

LEGAL AND SAFETY

Safety precautions

若計劃將低溫試管存放在液態氮中以供日後解凍，必須嚴格遵守相關安全措施。 必須穿戴適當的防護手套和防護服，且在將冷凍樣本移入或移出液氮罐時，必須佩戴口罩或安全護目鏡。此舉旨在降低因取出時冷凍試管可能發生爆炸而導致受傷的風險，此類爆炸可能造成尖銳碎片飛濺。

Warranty

在 Cytion，我們對產品的品質與存活率提供保障。
我們保證，自本公司設施出貨後
60 天內，我們的□胞在培養開始時仍具存活能力。
我們保證所有材料均符合
分析證明書及／或產品說明書中所載的規格。
詳情請參閱我們的
《保固聲明》。

Material Transfer Agreement required	Yes

PRODUCT DETAILS

Composition table

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