NCI-H526

305278

GENERAL INFORMATION

Description

NCI-H526 □胞系来源于人类成年人的小□胞肺癌（SCLC）。这种□胞系被广泛用于癌症研究，特别是小□胞肺癌的研究，小□胞肺癌以侵袭性强和预后不良而著称。 NCI-H526 □胞为研究 SCLC 的生物学特性、了解其快速生长和转移以及开发新的治疗策略提供了一个重要的模型。

NCI-H526 □胞表现出小□胞肺癌特有的圆形悬浮生长形态。它们表达嗜铬粒蛋白 A 和突触素等神经内分泌标志物，这是 SCLC 的典型特征。研究人员利用 NCI-H526 □胞研究与 SCLC 相关的遗传和表观遗传学变化，包括 TP53 和 RB1 基因的改变，这些基因在这类癌症中经常发生突变。这些 □胞还被用来探索驱动SCLC进展的信号通路，如Notch、PI3K/Akt和刺猬通路。在药物研发中，NCI-H526 □胞被用来评估化疗药物、靶向疗法和新型治疗组合的疗效。 NCI-H526□胞系在小□胞肺癌研究中的相关性凸显了它在促进我们对这种具有挑战性的疾病的了解和开发更有效的治疗方法方面的重要性。

Tissue	肺部
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□胞
Tumourigenic	是，在无胸腺小鼠中

IDENTIFIERS

Citation

NCI-H526（Cytion 目录号 305278）

NCBI TaxID	9606
Cellosaurus	CVCL_1569

EXPRESSION AND SUSCEPTIBILITY

Oncogenes

Myc+, myb+, fes+, fms+, raf+, ras+

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
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□w□2.0 mM □□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

Incubation atmosphere	37°C, 5%CO2, □□□□□

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 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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

Storage conditions

□□□□□□□□□□□□□□□□□□□□□□□□□ -150 □ -196 ℃□□-80 °C□□□□□□□□□□□□□□□□□□□

Shipping conditions

□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	55 □
Ethnicity	□□

LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。这样做是为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的□胞在开始培养时都是存活的。
我们保证所有材料均符合分析证书和/或产品说明书中描述的规格。
有关详□信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required	Yes

PRODUCT DETAILS

Composition table