NCI-H358

300430

GENERAL INFORMATION

Description

NCI-H358□称H-358或NCIH358，是一种上皮样细胞系，来源于一名支气管肺泡癌（非小细胞肺癌（ NSCLC）的一种亚型）患者。这些细胞具有典型的克拉拉细胞超微结构特征，如特定的细胞质特征。NCI-H358 细胞与以 NSCLC 为重点的癌症研究特别相关，尤其是在探索肺腺癌的生物学和治疗方面。

这种细胞系对于研究针对表皮生长因子受体（ EGFR）的疗法的有效性至关重要，因为表皮生长因子受体的突变是治疗 NSCLC 的重点。此外，NCI-H358 细胞对于研究 KRAS 基因突变的作用也很有价值，KRAS 基因突变在肺癌中很普遍，已知会驱动致癌活性。研究 NCI-H358 细胞中的这些突变有助于阐明肺癌进展和耐药性的分子途径。

NCI-H358细胞系存在p53的同源染色体缺失，而p53是一种主要的肿瘤抑制因子。H358 肺癌细胞系还用于评估新型治疗方法的潜力，如 SOS1 PROTACs，其目的是针对特定的致癌途径。

总之，NCI-H358 细胞系来源于支气管肺泡癌，是 NSCLC 研究的重要工具。它有助于研究表皮生长因子受体靶向疗法和 KRAS 突变在肺癌中的作用。它在癌症研究中的应用扩展到开发新的治疗策略，旨在减轻致癌基因突变的影响，改善肺癌患者的预后。

Tissue	肺部
Disease	微创肺腺癌

Synonyms

- NCI-H358
- H-358
- NCIH358

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Cell type	俱乐部细胞
Tumourigenic	是的，在裸鼠身上。

IDENTIFIERS

Citation

NCI-H358（Cytion 目录号 300430）

NCBI TaxID	9606
Cellosaurus	CVCL_1559

EXPRESSION AND SUSCEPTIBILITY

Protein expression

UGT -´ GST +´ PST +´ p53 -

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

P53 □□□□

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

Dissociation reagent	Accutase

Subculturing

□□□□□□□□□□□□□□□□□□□□ PBS □□□T25 □□□ 3-5 □□ PBS□T75 □□□ 5-10 □□□□□□ Accutase □□□□□□□T25 □□□ 1-2 □□□T75 □□□ 2.5 □□□□□□□□□□□□ 8-10 □□□□□□□□□□□□□ 10 □□□□□□□□□□□□□□□□□□□ 300xg □□ 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

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

Storage conditions

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Shipping conditions

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

DONOR

Donor age	□□□□
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，我们的细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。

有关详细信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required Yes

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

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