DMS-114

305364

GENERAL INFORMATION

Description

DMS-114 □一种人类小细胞肺癌（SCLC）细胞系，具有区别于其他 SCLC 亚型的独特特征。最近的研究表明，DMS-114（以前被归入YAP1表达的SCLC类别（SCLC-Y））在SMARCA4（SWI/SNF染色质重塑复合物的ATP酶亚基）中存在致病突变。这些突变与没有 RB1突变有关，这与SCLC的典型突变情况相反，SCLC通常同时存在TP53和RB1改变。该细胞系的特征包括SMARCA4 mRNA和蛋白表达减少，因此被重新归类为 SMARCA4缺陷未分化肿瘤（SMARCA4-UT），而非传统的SCLC。形态学评估显示，DMS-114 与胸部 SMARCA4-UT 更为接近，表现出较低的神经内分泌标志物表达和独特的免疫组化特征。
将DMS-114修订分类为SMARCA4缺陷型恶性肿瘤而非SCLC，对将其用作临床前模型具有重要意义。它 □研究针对SMARCA4相关通路的治疗策略和研究侵袭性胸部癌症生物学（模拟SCLC）的重要资源。与传统的 SCLC 不同，包括 DMS-114 在内的 SMARCA4 缺失型肿瘤通常具有独特的基因表达谱，其特征 □ YAP1 高表达、某些神经内分泌标志物缺失以及独特的分子脆弱性。这一观点强调了全面的分子和组织病理学分析对于准确的肿瘤分类和制定有效的治疗策略的必要性。

Tissue	肺部
Disease	胸腔SMARCA4缺陷性未分化肿瘤

Synonyms

- DMS-114
- DMS114
- Darmouth Medical School 114

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Tumourigenic	□，在裸鼠身上

IDENTIFIERS

Citation

DMS-114（Cytion 目录号 305364）

NCBI TaxID	9606
Cellosaurus	CVCL_1174

EXPRESSION AND SUSCEPTIBILITY

Receptors expressed

表皮生长因子（EGF）、补体（CR3）

Protein expression

表达的基因：促肾上腺皮质激素（促肾上腺皮质激素， ACTH）、胰高血糖素、胰高血糖素、 17 β-雌二醇、催产素-神经鞘磷脂（OT-NP）。

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Antigen expression

□□□ 7 +□My23 +□CD11b +

Mutational profile

□□□□□□SMARCA4□p.Glu1310Ter (c.3928G>T)□□□□□□□□□□PARD3B□Ex2-14del□□□□□□PARD3B□Ex2-14del□□□□□□□TP53□ p.Arg213Ter (c.3928G>T)□□□□TP53□p.Arg213Ter (c.637C>T)□□□□□

HANDLING AND CULTURE

Culture medium

Waymouth's MB 752/1 □□

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

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	Accutase
Fluid renewal	□□ 2 □

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

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

Shipping conditions

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

DONOR

Donor age	68□
Ethnicity	□□□□

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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 □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 □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

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