MET-5A

305269

GENERAL INFORMATION

Description

MET-5A □胞系来源于人类成年人的胸膜间皮□胞，常用于与间皮瘤有关的研究，间皮瘤是一种影响肺部、腹部和心脏间皮内膜的癌症。这些 □胞对于研究间皮瘤的生物学、发病机制和治疗至关重要，尤其是在了解石棉暴露等环境因素如何导致这种癌症的发生方面。 MET-5A □胞还用于探索□胞转化、肿瘤进展和□胞对各种化疗药物的反应机制。

MET-5A □胞具有典型的上皮形态，并保留了正常间皮 □胞的特征，包括表达□胞角蛋白和波形蛋白等间皮□胞标志物。这些□胞对炎症刺激反应灵敏，可用于研究间皮瘤发病过程中的炎症过程。研究人员利用 MET-5A □胞研究与间皮瘤相关的遗传和分子改变，并测试潜在治疗化合物的疗效和毒性。 MET-5A□胞在间皮□胞生物学建模中的相关性及其在间皮瘤研究中的作用，使其成为促进我们了解和治疗这种侵袭性癌症的重要工具。

Tissue	肺、胸膜

Synonyms

- MeT-5A
- MeT 5A
- MeT5A
- Met5A
- MET5A
- Mesothelial cells transfected with pRSV-T 5A

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This human mesothelial cell line (MET-5A) contains an SV40 T-Antigen construct introduced via plasmid transfection, enabling immortalization. The construct is stably integrated into mesothelial cells. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞
Cell type	间皮□胞
Tumourigenic	没有

IDENTIFIERS

Citation

MET-5A（Cytion 目录编号 305269）

NCBI TaxID	9606

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Cellosaurus	CVCL_3749

EXPRESSION AND SUSCEPTIBILITY

Protein expression

□□□□□□□□□SV40 T □□

Viruses

□□□□ Simian virus 40 (SV40)

HANDLING AND CULTURE

Culture medium

□□□ 199□w□1.5 □/□ NaHCO3

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

Supplements

□□□□□□□15% FBS□15 mM HEPES□1% ITS+

Dissociation reagent	Accutase

Subculturing

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

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□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□

Storage conditions

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Shipping conditions

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

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DONOR

Donor age	成人

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