HET-1A

305270

GENERAL INFORMATION

Description

HET-1A □胞系来源于人类食道上皮□胞，被广泛用于胃肠病学研究。这些□胞为研究食道的生理和病理，特别是巴雷特食道和食道癌等食道疾病提供了宝贵的模型。 HET-1A □胞经常被用来研究□胞对各种环境和饮食因素的反应，这些因素可能会导致食道疾病的发生和发展。

HET-1A □胞呈现上皮形态，保留了食管上皮□胞的典型特征，包括□胞角蛋白和其他上皮标志物的表达。它们被用于研究上皮 □胞生物学、分化和□胞转化机制。研究人员利用 HET-1A □胞探索酸和胆汁反流、氧化应激和炎症对食管 □胞的影响，从而深入了解胃食管反流病（GERD）的病理生理学及其向巴雷特食管或食管腺癌发展的可能性。此外， HET-1A □胞还可用于评估各种化学预防和治疗药物对食管上皮健康的影响，使其成为促进了解和治疗食管疾病的重要工具。

Tissue	食道

Synonyms

- Het-1A
- HET1A
- Het1A

CLASSIFICATION

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

GMO status details

GMO-S1: This human esophageal epithelial cell line (HET-1A) contains an SV40 T-Antigen construct (pRSV-T) delivered via transfection under RSV-LTR control, enabling immortalization. The insert is stably integrated into esophageal epithelial cells. This classification applies only within Germany and may differ elsewhere.

Biosafety level	2

CHARACTERISTICS

Morphology	上皮□胞
Cell type	上皮□胞
Tumourigenic	没有

IDENTIFIERS

Citation

HET-1A（Cytion 目录编号 305270）

NCBI TaxID	9606
Cellosaurus	CVCL_3702

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

EXPRESSION AND SUSCEPTIBILITY

Protein expression

□□□□□

Antigen expression

SV40 T □□

Viruses

□□□□ Simian virus 40 (SV40)

HANDLING AND CULTURE

Culture medium

BEGM □□□□□□□□□□□□ BulletKit□□□□□□□□□□□□□□□ CC-3170□

Incubation atmosphere	37°C, 5%CO2, □□□□□
Dissociation reagent	Accutase

Subculturing

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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

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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	74 年
Ethnicity	非洲裔美国人

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