HEK293T/17

305117

GENERAL INFORMATION

Description

293T/17 □胞系是 HEK293 □胞系的永生化变种，源自人类胚胎肾□胞，广泛用于研究，特别是研究和生产逆转录病毒和慢病毒载体。该 □胞系经改造后可表达 SV40 大 T 抗原，从而提高了其在病毒载体生产中的实用性。SV40 大 T 抗原的表达是这些□胞能够复制含有 SV40 复制源的质粒的一个关键特征，从而大大提高了瞬时转染程序中质粒 DNA 的产量。这一特性尤其有利于病毒载体的生产。

293T/17 □胞是生产逆转录病毒和慢病毒等病毒载体的关键。由于 293T/17 □胞能够扩增转染质粒并支持病毒的组装和释放，因此能高效地生产病毒颗粒。这使它们成为基因治疗研究的重要工具，这些载体被用于将遗传物质送入宿主 □胞。□胞表现出很高的转染效率，这对于在载体构建过程中成功引入和表达外来 DNA 至关重要。这种高效率可以有效地研究基因功能和生成重组蛋白。

293T/17 □胞系的强大功能使其在基础科学研究和治疗应用中都具有重要价值。它广泛应用于分子生物学和基因工程中的蛋白质表达、基因功能分析和新型基因疗法的开发。该 □胞系在生产病毒载体方面的高效率为需要遗传物质传递的实验提供了便利，使其成为病毒学领域的基石。 293T/17 □胞系在促进我们对基因功能的了解和开发治疗干预措施方面继续发挥着关键作用。

Tissue	胚胎肾脏

Applications

这种□胞系是转染、高通量筛选、毒理学和疫苗开发的最佳选择。

Synonyms

- HEK293T/17
- HEK-293T/17
- HEK 293T/17

CLASSIFICATION

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

GMO status details

GMO-S1: This HEK293T/17 cell line contains SV40, enhancing plasmid replication and packaging efficiency. The insert is stably present in transformed embryonic kidney cells. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞

IDENTIFIERS

Citation

HEK293T/17（Cytion 产品编号 305117）

NCBI TaxID	9606
Cellosaurus	CVCL_1926

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

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

SV40 T □□

Viruses

SV40□□□ SV40 T □□□

HANDLING AND CULTURE

Culture medium

DMEM□w□4.5 □/□□□□□w□4 □□□ L-□□□□□w□3.7 □/□ NaHCO3□w□1.0 □□□□□□□□Cytion □□ 820300a□□

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

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

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

Shipping conditions

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

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DONOR

Donor age	胎儿

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

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