SNU-398

305274

GENERAL INFORMATION

Description

SNU-398 □胞系来源于人类成年人的肝□胞癌（HCC）。这种□胞系被广泛用于肝癌研究，以研究肝癌发生、肿瘤进展和治疗策略开发的分子机制。肝□胞癌是一种常见的致命肝癌，SNU-398 □胞为研究与这种疾病相关的遗传和表观遗传学变化提供了一个相关模型。

SNU-398 □胞呈现上皮形态，并表达肝癌的特征性标志物，如甲胎蛋白（ AFP）和□胞角蛋白。它们携带典型的 HCC 基因突变和改变，包括 TP53 基因突变，而 TP53 基因突变通常与许多癌症有关。研究人员利用 SNU-398 □胞探索肝癌涉及的各种信号通路，如 Wnt/β-catenin、PI3K/Akt 和 MAPK 通路。这些□胞还被用于药物筛选试验，以评估化疗药物和靶向疗法的疗效，以及研究传统疗法的抗药性机制。 SNU-398 □胞系在肝□胞癌研究中的重要性在于它能够建立肝癌生物学模型，并有助于为肝癌患者开发更有效的疗法。

Tissue	肝脏
Disease	成人肝□胞癌

Synonyms

- SNU398
- NCI-SNU-398

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞

IDENTIFIERS

Citation

SNU-398（Cytion 目录号 305274）

NCBI TaxID	9606
Cellosaurus	CVCL_0077

EXPRESSION AND SUSCEPTIBILITY

Surface antigens

血型 0，Rh +

Mutational profile

突变：CTNNB1，p.Ser37Cys (c.110C>G)，杂合；突变：TP53，p.Ser215Ile (c.644G>T)，杂合子

Viruses

变异体：乙型肝炎病毒（HBV）

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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□25 mM HEPES□10%□□□ FBS □ 25 mM HEPES□

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 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	42 □
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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