SNU-5

305633

GENERAL INFORMATION

Description

SNU-5□胞系是由转移病灶建立的人胃癌模型，其分子异常特征已被确证，尤其涉及 p53抑癌基因的突变。 研究表明，通过Northern印迹分析检测到p53 mRNA缺失，证实SNU-5存在p53基因转录本缺失。核糖核酸酶保护实验和测序进一步证实：该 □胞系编码区未检测到可测突变，但完全无法表达转录本，表明基因沉默可能源于调控或表观遗传机制，而非结构性突变。

蛋白质组学分析为深入理解SNU-5的分子特征提供了新视角。大规模研究将 SNU-5纳入人类癌□胞系蛋白质组测绘的□胞系面板。 在此背景下，SNU-5为整合数千种蛋白质质谱定量数据的分析集提供了重要贡献。这些蛋白质组学数据集已与转录组、基因组及表型特征建立关联，全面呈现了蛋白质表达、转录后调控及药物响应特性。此类数据集使 SNU-5成为研究胃癌生物学机制的宝贵模型，尤其在转移性疾病和 p53通路失调领域具有重要价值。

Tissue	胃
Disease	腺癌
Metastatic site	腹水

Applications

三维□胞培养、癌症研究

Synonyms

- SNU5
- NCI-SNU-5

CLASSIFICATION

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

GMO status details

GMO-S1: This 4T1 carcinoma derivative contains a-Luc reporter construct introduced by lentiviral transduction, enabling bioluminescent tumor monitoring. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	淋巴母□胞样
Cell type	淋巴母□胞
Doubling time	34 小时

IDENTIFIERS

Citation

SNU-5（赛迪昂产品编号 305633）

NCBI TaxID	9606
Cellosaurus	CVCL_0078

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

□□□CDKN2A□□□□□□□p.Arg80Ter (c.238C>T) (p.Pro94Leu, c.281C>T)□□□□□ □□□TP53□□□□□□
p.Gly262_Ser269delGlyAsnLeuLeuGlyArgAsnSer (c.784_807del24)□□□□

HANDLING AND CULTURE

Culture medium

IMDM□ w□4.5 □/□□□□□ w□4 □□□ L-□□□□□ w□25 □□□ HEPES□ w□1.0 □□□□□□□□ w□3.024 □/□ NaHCO3□Cytion □□□□
820800a□□

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

Supplements

□□□□□□□ 20% □ FBS

Dissociation reagent	Accutase

Subculturing

□□□□□□15□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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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Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

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

DONOR

Donor age	33 年
Ethnicity	韩语

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