Panc 10.05

300599

GENERAL INFORMATION

Description

Panc 10.05 □胞系是一种人类胰腺导管腺癌（PDAC）□胞系，用于探索胰腺癌的生物学特性和潜在的治疗干预措施。与其他 PDAC □胞系一样，Panc 10.05 □胞也经常被用于研究，重点是了解肿瘤微环境、癌□胞增殖和化疗耐药机制。该□胞系与 BxPC-3 和 HPAF-II 等其他□胞系一起，被用于测试新型抗癌药物的效果，包括铁螯合剂（如地拉罗司（DFX））。研究表明，DFX 通过诱导□胞凋亡和使□胞周期停滞在 S 期，对 Panc 10.05 □胞具有剂量依赖性抗增殖活性。

Panc 10.05 还被用于探索炎症和免疫调节在胰腺癌中的作用。例如，在与巨噬 □胞的共培养模型中，Panc 10.05 □胞与肿瘤相关巨噬□胞（TAMs）相互作用，创造了一种促炎微环境。这种相互作用会导致 NLRP3 炎性体的激活，而 NLRP3 炎性体在促进肿瘤生长和免疫逃避方面起着至关重要的作用。研究表明，通过 MCC950 等特异性抑制剂抑制 NLRP3 炎症小体，可降低促炎□胞因子反应和肿瘤□胞增殖，这凸显了其作为治疗靶点的潜力。

总之，Panc 10.05 □胞系是研究治疗药物直接作用和胰腺癌肿瘤微环境复杂相互作用的可靠模型，有助于开发治疗这种侵袭性疾病的新策略。

Tissue	胰腺
Disease	胰腺导管腺癌

Applications

三维□胞培养、癌症研究

Synonyms

- Panc-10.05
- Panc10.05
- PANC-10-05
- PANC 1005
- PANC1005
- Panc1005
- Pa16C
- PL12
- PL-12

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞
Cell type	上皮□胞
Tumourigenic	是，在裸鼠或 SCID 小鼠体内形成肿瘤

IDENTIFIERS

Citation

Panc 10.05（Cytion 目录编号 300599）

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

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

NCBI TaxID	9606
Cellosaurus	CVCL_1639

EXPRESSION AND SUSCEPTIBILITY

Protein expression

□□□□□ 7□□□□□□ 18

Antigen expression

MHC I □ +□MHC II □ -

Oncogenes

K-ras+

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

□□□□□□□ 20% □□□ FBS□10 □□/□□□□□□□□

Dissociation reagent	Accutase

Subculturing

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

Freeze medium	□□□□□□□□□□□□□□□ FBS□+10% DMSO □ CM-1□Cytion □□□□□□ 800100□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□

Storage conditions

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

Shipping conditions

冷冻保存的□胞系用干冰装运，并用经过验证的隔热包装和足够的制冷剂在整个运输过程中保持约 -78 °C 的温度。收到货后，应立即检查容器，并立即将小瓶转移到适当的储藏室。

DONOR

Donor age	81 年
Ethnicity	欧洲

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

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

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