BT-483

305247

GENERAL INFORMATION

Description

BT-483□胞系源自人类乳腺癌。具体而言，这些□胞是从一名成年女性乳腺癌患者的原发肿瘤中建立的。 BT-483□胞具有上皮样形态特征，在培养中呈贴壁生长，形成单层□胞。该□胞系为雌激素受体阳性（ER+），因此对于研究激素敏感性乳腺癌以及雌激素在乳腺癌进展中的作用具有特别重要的价值

研究人员利用 BT-483 □胞探索乳腺癌生物学的各个方面，包括激素受体信号传导、基因表达谱以及 □胞对不同激素治疗的反应。这些□胞对于测试抗雌激素药物（如他莫昔芬和芳香酶抑制剂）的疗效至关重要，这些药物常用于治疗 ER+ 乳腺癌。此外，BT-483□胞还为研究激素敏感性乳腺癌中的耐药机制、肿瘤生长和转移提供了有用的模型。

BT-483□胞系还可作为高通量筛选新疗法及阐明乳腺癌异质性分子基础的工具。 通过将BT-483□胞对各种治疗的反应与其他乳腺癌□胞系进行比较，研究人员可以识别出具体的脆弱点和潜在的治疗靶点，最终有助于为乳腺癌患者开发更有效、更个性化的治疗方案。

Tissue	乳房
Disease	无特殊类型的浸润性乳腺癌

Synonyms

- BT483

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞
Cell type	上皮□胞
Tumourigenic	在阿姆斯特丹/IMR大鼠中：是；在裸鼠中：是；在软琼脂中：是

IDENTIFIERS

Citation

BT-483（Cytion 产品编号 305247）

NCBI TaxID	9606
Cellosaurus	CVCL_2319

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

突变：PIK3CA，p.Glu542Lys (c.1624G>A)；突变：TP53 p.Met246Ile (c.738G>A)

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

HANDLING AND CULTURE

Culture medium

DMEM:Ham's F12□1:1□□w: 3.1 g/L □□□□w: 2.5 mM L-□□□□□w: 15 mM HEPES□w: 0.5 mM □□□□□w: 1.2 g/L NaHCO3□Cytion □□□□ 820400a□□

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

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	TrypLE Express

Subculturing

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

Seeding density	1□3×10⁴□□□/□□□□
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 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□

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	23 □
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

PRODUCT DETAILS

Composition table