OVCAR-8-Luc

305697

GENERAL INFORMATION

Description

OVCAR-8-Luc □胞是人類卵巢腺癌□胞系 OVCAR-8 的生物發光衍生□胞系，該□胞系最初是從一名晚期成人患者身上建立的。 這些□胞經過基因工程改造，可穩定表達螢火蟲酶（luciferase）——這是一種在底物存在下能催化發光的酶，從而實現對 □胞活動的高靈敏度、非侵入性監測。 原始的 OVCAR-8 □胞系具有生長兇猛、基因組不穩定，以及高分化度漿液性卵巢癌的典型特徵，因此成為研究卵巢腫瘤生物學的廣泛應用模型。

透過整合螢光素酶，OVCAR-8-Luc □胞可應用於縱向體內成像，特別是在異種移植與原位腫瘤模型中，可利用生物發光成像技術，隨時間推移定量追蹤腫瘤負荷與轉移擴散情況。 這些□胞保留了親本□胞系的主要分子和表型特徵，包括與卵巢癌進展相關的通路改變，例如 p53 功能失調和□胞週期控制失調。 因此，OVCAR-8-Luc □胞非常適合用於評估治療療效、腫瘤生長動力學和轉移行為，以及在臨床前研究中探討腫瘤微環境的相互作用。

Tissue	卵巢
Disease	腺癌
Metastatic site	原發性腫瘤部位（卵巢）

Applications

卵巢癌研究；異種移植／原位模型中的生物發光成像；體內腫瘤負荷追蹤；藥物療效與藥理動力學； PARP 抑制劑及鉑類藥物敏感性研究；腹膜轉移模型建立；卵巢癌免疫療法評估

Synonyms

- OVCAR 8
- NIH:OVCAR-8
- OVCAR8
- Ovcar8
- OVCAR.8
- OVCA8
- OVCAR-8/EGFP_LC3

CLASSIFICATION

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

GMO status details

GMO-S1: This cell line contains a stably integrated firefly luciferase reporter cassette (Luc2, codon-optimized) introduced via replication-incompetent lentiviral transduction. The resulting polyclonal cell population was maintained under puromycin selection (1–5 µg/mL). S1 containment is required. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	上皮樣
Cell type	上皮□胞

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CEO / Geschäftsführer: Jonathan Steubing

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

IDENTIFIERS

Citation

OVCAR-8-Luc□Cytion □□ 305697□

NCBI TaxID	9606
Cellosaurus	CVCL_2169

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

Luc2□□□□□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□□ 2.0 mM □□□□□□□□ 2.0 g/L $NaHCO_3$□Cytion □□□□ 820700a□

Incubation atmosphere	37°C□5% CO_2□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Dissociation reagent	Accutase
Seeding density	1–3 × 10^4 □□□/mL
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 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

QUALITY CONTROL AND CRYOPRESERVATION

Freeze medium	□□□□□□□□□□□□□□□□□□□□□□□□□□ 10% □□□□□□□□DMSO□□□□□□□□□□□□□□□□□□□□ □□□□

Storage conditions

□□□□□□□□□□□□□□□□□□ −150 □ −196 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□ −80 °C □□□□□□□□□□□□□□

Shipping conditions

□□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□

DONOR

Donor age	64□
Ethnicity	□□□□

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LEGAL AND SAFETY

Safety precautions

若計劃將低溫試管存放在液態氮中以供日後解凍，必須嚴格遵守相關安全措施。 必須穿戴適當的防護手套和防護服，且在將冷凍樣本移入或移出液氮罐時，必須佩戴口罩或安全護目鏡。此舉旨在降低因取出時冷凍試管可能發生爆炸而導致受傷的風險，此類爆炸可能造成尖銳碎片飛濺。

Warranty

在 Cytion，我們對產品的品質與存活率提供保障。
我們保證，自本公司設施出貨後
60 天內，我們的□胞在培養開始時仍具存活能力。
我們保證所有材料均符合
分析證明書及／或產品說明書中所載的規格。
詳情請參閱我們的
《保固聲明》。

Material Transfer Agreement required	Yes

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