

HCC827-Luc | 305670

General information

Description	HCC827-Luc is a cell line derived from HCC827 cells, which are a human lung adenocarcinoma cell line. HCC827 cells are characterized by their high growth rate and their ability to form tumors in nude mice. HCC827-Luc cells are a derivative of HCC827 cells that have been engineered to express a luciferase gene (Luc2) under the control of the EGFR promoter. This allows for the detection of EGFR activity in the cells using bioluminescence imaging (BLI). HCC827-Luc cells are used for the study of EGFR signaling and for the development of EGFR inhibitors. HCC827-Luc cells are also used for the study of drug resistance in EGFR-positive lung cancer. HCC827-Luc cells are a valuable tool for the study of EGFR signaling and for the development of EGFR inhibitors.
Organism	Human
Tissue	Lung
Disease	Lung cancer

Cell characteristics

Age	39 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Adherent

Cell line identification

Citation	HCC827-Luc (Cytion: 305670)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2063
GMO Status	GMO-S1: HCC827-Luc cells are a genetically modified organism (GMO) because they have been engineered to express a luciferase gene (Luc2) under the control of the EGFR promoter. HCC827-Luc cells are used for the study of EGFR signaling and for the development of EGFR inhibitors. HCC827-Luc cells are also used for the study of drug resistance in EGFR-positive lung cancer. HCC827-Luc cells are a valuable tool for the study of EGFR signaling and for the development of EGFR inhibitors.

Product sheet

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Cell Line: HCC827-Luc

Antigen expression	Luc2 (intracellular, secreted, membrane)
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Cell Line: HCC827-Luc

Culture Medium	RPMI 1640 2.0 mM Glucose 2.0 mM NaHCO3 (pH 7.2) 820700a (100x)
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Supplements	10% FBS
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Dissociation Reagent	10 min 37°C
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Subculturing	1:3 split ratio
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Split ratio	1:3
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Seeding density	1 x 10 ⁴ cells
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Fluid renewal	2 x 3 days
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Freeze medium	10% DMSO
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**Thawing and
Culturing Cells**

1. Remove the vial from liquid nitrogen storage and allow it to thaw at room temperature for 1-2 minutes.
2. Dilute the cells into 10 ml of pre-warmed complete medium and transfer to a 150 cm² flask.
3. Incubate the cells at 37 °C in 5% CO₂ for 24 hours.
4. After 24 hours, check the cell density. If the density is below 70%, add more cells.
5. After 48 hours, check the cell density. If the density is below 80%, add more cells.
6. After 72 hours, check the cell density. If the density is below 80%, add more cells.
7. After 96 hours, check the cell density. If the density is below 80%, add more cells.

**Incubation
Atmosphere**

37 °C, 5% CO₂, humidified

**Shipping
Conditions**

Shipped on dry ice, -78 °C

**Storage
Conditions**

Store at -150 °C to -196 °C

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