

HCC1937 | 305064

General Information

Description	HCC1937 is a human cell line derived from a metastatic adenocarcinoma of the colon. It is characterized by a high rate of proliferation and is widely used in cancer research. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor 1 (IGF1). PTEN is overexpressed in this cell line.
Organism	Human
Tissue	Colon, Adenocarcinoma
Disease	Colorectal cancer
Synonyms	HCC-1937, HCC/1937

Cell Culture

Age	23 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

References and Safety

Citation	HCC1937 (ATCC CCL-221) Cytion 305064
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_0290

Additional Information

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Receptors expressed EGFR, HER2, IGF1R, PDGFR

Protein expression EGFR (Egp2), HER2 19

Media

Culture Medium RPMI 1640, w: 2.0 mM Glutamine, w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements FBS 10%

Dissociation Reagent Trypsin

Subculturing Seed cells into 25 cm² flasks in RPMI 1640 + 10% FBS. Passage 1: 1:3 dilution. Passage 2: 1:3 dilution.

Fluid renewal 2-3 times per week

Freeze medium RPMI 1640 + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells quickly in a 37°C water bath, then transfer to a 15 mL centrifuge tube.
 2. Add 10 mL of RPMI 1640 + 10% FBS to the tube and centrifuge at 300 x g for 5 minutes.
 3. Remove the supernatant and resuspend the cell pellet in 10 mL of RPMI 1640 + 10% FBS.
 4. Seed cells into a 25 cm² flask at a density of 1 x 10⁶ cells per flask.
 5. Incubate cells in a humidified 5% CO₂ incubator at 37°C.
 6. Monitor cell growth and passage cells when they reach 70-80% confluency.
 7. For passage, trypsinize cells and seed into new flasks at a 1:3 dilution.
 8. For freezing, trypsinize cells and resuspend in freeze medium.

Product sheet

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Incubation Atmosphere 37°C, 5% CO₂, **humidified**

Flask Coating **polypropylene**, **adherent**

Freezing Procedure **freeze** **slowly** **in** **liquid** **nitrogen** **and** **store** **at** **-78°C**

Shipping Conditions **freeze** **slowly** **in** **liquid** **nitrogen** **and** **store** **at** **-78°C**

Storage Conditions **freeze** **slowly** **in** **liquid** **nitrogen** **and** **store** **at** **-150** **to** **-196** **degrees** **Celsius**

ATCC / **DSMZ** / **HLA**

Sterility **PCR** **contaminated**
not **sterile**