

Product sheet

HCC187 | 305781

General Information

Description	HCC187 is a human colorectal adenocarcinoma cell line. It is a highly metastatic cell line that grows in vitro as a monolayer and in vivo as subcutaneous xenografts. HCC187 cells are characterized by their ability to form large, solid, necrotic nodules in the lungs of nude mice. HCC187 cells are highly tumorigenic and are used as a model for studying the biology of colorectal cancer.
Organism	Human
Tissue	Colon
Disease	Colorectal adenocarcinoma
Synonyms	HCC-1187, HCC1187, HCC187

Cell Line Characteristics

Age	41 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Cell type	Adenocarcinoma
Growth properties	Adherent, tumorigenic

Additional Information

Citation	HCC187 (HCC187) Cytion 305781
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1247

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Cell Line

Protein expression	HER2, EGFR
Antigen expression	EGFR2 (EGP2); EGFR19
Oncogenes	Her2/neu-; p53+
Tumorigenic	Yes, in nude mice, in SCID mice, in NSG mice, in IIA, 3, in TNM.
Mutational profile	TP53, p.Gly108del (c.322_324delGGT), EGFR (Cosmic-CLP=749711)

Media

Culture Medium	RPMI 1640, w: 2.0 mM Glutamine, w: 2.0 g/L NaHCO3 (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Doubling time	100 hours
Fluid renewal	2-3 times per week
Freeze medium	DMEM, 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. **Thawing:** Thaw the vial containing the cells in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. **Centrifugation:** Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in fresh medium.
3. **Seeding:** Seed the cells into a 15 cm² flask containing 8 ml of medium. The final cell concentration should be approximately 1.5 x 10⁶ cells/ml.
4. **Attachment:** Allow the cells to attach to the flask for 24 hours. The medium should be replaced with fresh medium.
5. **Expansion:** Once the cells have reached confluence, they can be expanded into larger flasks or bioreactors.
6. **Passaging:** Cells can be passaged into new flasks using trypsin digestion. The medium should be replaced with fresh medium.
7. **Freezing:** Cells can be frozen for long-term storage. The cells should be resuspended in freezing medium and stored at -80°C.
8. **Quality Control:** Regularly monitor the cell morphology and growth rate to ensure the quality of the cell line.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Flasks should be coated with poly-D-lysine to facilitate cell attachment.

Freezing Procedure

Cells should be resuspended in freezing medium and stored at -80°C.

Shipping Conditions

Cells should be shipped at -80°C.

Storage Conditions

Cells should be stored at -150°C for up to 196 months.

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Sterility

Cells are provided in a sterile, virus-free medium.

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