

Product sheet

HROC278 T0 M1 | 300835

General information

Description	Cell line derived from a 76-year-old male patient with metastatic colorectal adenocarcinoma (PD Dr. Michael Linnebacher) [redacted]
Organism	Human
Tissue	Colorectal adenocarcinoma, UICC IV, metastatic colorectal adenocarcinoma (metastatic colorectal adenocarcinoma, TNM T4N2M1R0L1V1, G3, Lk(n) +19, Σ Lk(n) 29)
Disease	Colorectal adenocarcinoma
Synonyms	HROC278

Donor information

Age	76 years
Gender	Male
Ethnicity	German
Morphology	Epithelial
Growth properties	Adherent

Identification and safety

Citation	HROC278 T0 M1 (HROC278 T0 M1) Cytion 300835
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1U89

Protein expression

Protein expression	PTEN
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Tumorigenic	Yes, tumorigenic in SCID-hu mice
Viruses	Not tested for SV40, JC/BK, HBV, HCV, HIV.
MSI-status	MSI-L
Mutational profile	B-RAFV600E APCwt, p53wt, K-Raswt, N-Raswt, H-Raswt, PIK3CAwt
Characteristics	
Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM beta-mercaptoethanol, w: 1.2 g/L NaHCO3 820400a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Doubling time	43 hours
Subculturing	Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 2 x 10^4 cells per flask. Media is replaced every 3-5 days. Cells are harvested when they reach 80-90% confluency.
Seeding density	2 x 10^4 cells/flask
Fluid renewal	3-5 days
Post-Thaw Recovery	1-2 weeks
Freeze medium	DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath, and transfer the cells to a pre-warmed T25 flask containing 5 ml of complete DMEM medium.
2. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency. Do not overconfluence the cells.
3. Seed the cells into a 96-well plate (100 µl/well) at a density of 100,000 cells per well. Incubate at 37°C in 5% CO₂ until the cells reach 70-80% confluency.
4. Harvest the cells by trypsinization and resuspend in 10 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask.
5. Harvest the cells by trypsinization and resuspend in 10 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask.
6. Harvest the cells by trypsinization and resuspend in 10 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask.
7. Harvest the cells by trypsinization and resuspend in 10 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask.
8. Harvest the cells by trypsinization and resuspend in 10 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Harvest cells by trypsinization and resuspend in 1 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask. Incubate at 37°C in 5% CO₂ until the cells reach 70-80% confluency.

Shipping Conditions Harvest cells by trypsinization and resuspend in 1 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask. Incubate at 37°C in 5% CO₂ until the cells reach 70-80% confluency.

Storage Conditions Harvest cells by trypsinization and resuspend in 1 ml of complete DMEM medium. Seed into a T25 flask at a density of 100,000 cells per flask. Incubate at 37°C in 5% CO₂ until the cells reach 70-80% confluency.

HEK293T / HEK293T / HLA

Sterility The cells are provided in a sterile, cryoprotected state. The cells are not tested for mycoplasma contamination. The cells are not tested for endotoxin contamination. The cells are not tested for adventitious agents.

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██████ HLA

- A*:** '03:01:01, '25:01:01
- B*:** 07:02:01, 18:01:01
- C*:** '07:02:01, '12:03:01
- DRB1*:** 04:01:01
- DQA1*:** 03:01:01
- DQB1*:** 03:02:01
- DPB1*:** 02:01:02
- E:** 01:01, 01:03