

Product sheet

HROC147 T0 M1 | 300856

General information

Description	Cell line derived from a 54-year-old male patient with colorectal adenocarcinoma (PD Dr. Michael Linnebacher) [redacted]
Organism	Human
Tissue	Colorectal adenocarcinoma, UICC IV, [redacted] CRC [redacted] (TNM T3N2M1R0L1V1, [redacted] G3, [redacted])
Disease	Colorectal adenocarcinoma
Synonyms	HROC147

Patient information

Age	54 years
Gender	Male
Ethnicity	[redacted]
Morphology	[redacted]
Growth properties	[redacted]

Identification and safety

Citation	HROC147 T0 M1 ([redacted] Cytion 300856)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1G09

Protein expression

Protein expression	PTEN
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Tumorigenic	Yes, orthotopic xenografts in nude mice
Viruses	None detected. SV40, JC/BK, HBV, HCV, HIV.
MSI-status	MSI-L
Mutational profile	APCmut, p53wt, K-Rasmut, B-RAFwt, 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	None. 10% FBS
Dissociation Reagent	None
Doubling time	29 days
Subculturing	Cells are grown in 75 cm ² flasks 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 new flasks at a density of 2 x 10 ⁴ cells per flask.
Seeding density	2 x 10 ⁴ cells/flask
Fluid renewal	3-5 days
Post-Thaw Recovery	None
Freeze medium	DMEM:Ham's F12 (1:1), 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 DMEM supplemented with 10% FBS.
2. Incubate the cells for 24 hours at 37°C in 5% CO₂ to allow the cells to attach and recover from the freezing process.
3. After 24 hours, the medium should be replaced with DMEM supplemented with 10% FBS, and the cells should be incubated for 37 hours at 37°C in 5% CO₂.
4. Once the cells are fully attached, the medium should be replaced with DMEM supplemented with 10% FBS, and the cells should be incubated for 70% confluency.
5. The cells should be seeded into a 15 cm² flask containing 8 ml of DMEM supplemented with 10% FBS.
6. The cells should be incubated for 24 hours at 37°C in 5% CO₂ to allow the cells to attach and recover from the freezing process.
7. The cells should be seeded into a 10 cm² flask containing 4 ml of DMEM supplemented with 10% FBS, and the cells should be incubated for 24 hours at 37°C in 5% CO₂.
8. The cells should be seeded into a 10 cm² flask containing 4 ml of DMEM supplemented with 10% FBS, and the cells should be incubated for 24 hours at 37°C in 5% CO₂.

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

Flask Coating Cell culture flasks should be coated with poly-D-lysine.

Freezing Procedure Harvest cells at 70-80% confluency and seed into a pre-cooled vial containing 1 ml of freezing medium. Freeze the vial in a dry ice/acetone slush and store at -80°C.

Shipping Conditions Cells should be shipped in a dry ice/acetone slush and stored at -80°C.

Storage Conditions Cells should be stored at -150°C for up to 196 days.

HEK293T / HEK293T HROC147 / HLA

Sterility HEK293T cells are free of mycoplasma contamination. HEK293T HROC147 cells are free of mycoplasma contamination. HEK293T HLA cells are free of mycoplasma contamination.