

Product sheet

HROC284Met | 300816

General information

Description	Cell line derived from a 67-year-old male patient with metastatic colorectal cancer (PD Dr. Michael Linnebacher) [redacted]
Organism	Human
Tissue	Colorectal cancer
Disease	Colorectal cancer
Metastatic site	Colon, metastatic CRC (colorectal cancer)

Patient information

Age	67 years
Gender	Male
Ethnicity	German
Morphology	Epithelial
Growth properties	Adherent

Identification and safety

Citation	HROC284Met1 (HROC284Met1 Cytion 300816)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1U91

Genetic information

Protein expression	PTEN
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Tumorigenic	Yes, tumorigenic in SCID-hu mice
Viruses	HEK293T SV40, JC/BK, HBV, HCV, HIV.
MSI-status	MSS
Mutational profile	K-Raswt, N-Raswt, H-Raswt, PIK3CAwt, B-Rafwt
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 sodium pyruvate, w: 1.2 g/L NaHCO ₃ 820400a)
Supplements	10% FBS
Dissociation Reagent	Trypsin/EDTA; Trypsin, EDTA, DNase I
Doubling time	29 hours
Subculturing	Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are detached using Trypsin/EDTA, washed with PBS, 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	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 in a humidified 5% CO₂ incubator at 37°C until cells reach 70-80% confluency, typically 2-3 days.
3. Harvest the cells by trypsinization, and seed them into a new T25 flask with 5 ml of complete DMEM medium.
4. Incubate the cells in a humidified 5% CO₂ incubator at 37°C until cells reach 70-80% confluency.
5. Harvest the cells by trypsinization, and seed them into a new T25 flask with 5 ml of complete DMEM medium.
6. Incubate the cells in a humidified 5% CO₂ incubator at 37°C until cells reach 70-80% confluency.
7. Harvest the cells by trypsinization, and seed them into a new T25 flask with 5 ml of complete DMEM medium.
8. Incubate the cells in a humidified 5% CO₂ incubator at 37°C until cells reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells by trypsinization, resuspend in freezing medium, and store at -80°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C, 196 K

HEK293T / HEK293T / HLA

Sterility Sterile, PCR negative