

Product sheet

HROC334 | 300850

General information

Description	Cell line derived from a 69-year-old male patient with a primary tumor of the colon (PD Dr. Michael Linnebacher) [ref]
Organism	Human
Tissue	Colon, UICC IIA, TNM T3N0M0R0L0V0, G2, Lk(n) +0, Σ Lk(n) 40
Disease	Colorectal adenocarcinoma

Patient information

Age	69 years
Gender	Male
Ethnicity	German
Morphology	Epithelial
Growth properties	Adherent

Identification and classification

Citation	HROC334 (HROC334 Cytion 300850)
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1D18

Genetic and molecular characteristics

Protein expression	PTEN
Tumorigenic	Yes, tumorigenic in nude mice

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Viruses SV40, JC/BK, HBV, HCV, HIV.

MSI-status MSS

Mutational profile K-Raswt, N-Raswt, H-Raswt, PIK3CAwt, B-Rafwt

HEp-2

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.5 mM L- CaCl_2 , w: 15 mM HEPES, w: 0.5 mM $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, w: 1.2 g/L NaHCO_3 820400a)

Supplements CaCl_2 10% FBS

Dissociation Reagent CaCl_2

Doubling time 29 h

Subculturing HEp-2 cells are maintained in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized with 0.25% trypsin-EDTA in PBS, washed with PBS, and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 2×10^4 cells per flask. Media is replaced every 3-5 days. Cells are passaged when confluency reaches 80-90%.

Seeding density 2×10^4 cells per flask

Fluid renewal 3-5 days

Post-Thaw Recovery 3-5 days

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. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a 150 cm² flask containing 150 ml of pre-warmed medium.
4. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.
5. Harvest the cells by trypsinization and seed them into a new flask.
6. Repeat the process for the remaining vials.
7. Store the remaining cells in a cryovial at -80°C.
8. Thaw the cryovial in a 37°C water bath and follow the same procedure as above.

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

Flask Coating None

Freezing Procedure Harvest cells by trypsinization and seed them into a cryovial containing 1 ml of freezing medium. Store at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150°C for up to 196 weeks.

HEK293T / HEK293T / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.