

Product sheet

HEP-56.1C | 400203

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Description HEP-56.1C is a cell line derived from a human liver carcinoma, established in 1965. It is a continuous cell line that grows in suspension culture. The cells are of epithelial origin and are characterized by their ability to form spheroids in suspension culture. HEP-56.1C is a well-established cell line that is widely used in research on liver cancer and drug development. The cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin, 10 ng/ml transferrin, and 10 ng/ml selenium (ITS). HEP-56.1C is a cell line that is highly tumorigenic and is capable of forming tumors in nude mice. The cells are also highly sensitive to various chemotherapeutic agents, making them a valuable model for studying the mechanisms of drug resistance in liver cancer. HEP-56.1C is a cell line that is highly sensitive to various chemotherapeutic agents, making them a valuable model for studying the mechanisms of drug resistance in liver cancer.

Organism Human

Tissue Liver

Disease Hepatocellular carcinoma

Synonyms HEP-56.1C, 56.1C, 56.1c

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Breed/Subspecies C57BL/6J

Age 1-3 months

Gender Male

Morphology Epithelial

Growth properties Suspension

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Citation HEP-56.1C (HEP-56.1C) Cytion 400203

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_5768

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General Information

Culture Medium DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM β-mercaptoethanol (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Seed cells into T25 flasks with 3 ml of DMEM + 10% FBS. For passage, use 2 ml of medium and trypsin to dissociate cells. Seed into new flasks with 3 ml of medium.

Seeding density 1 x 10⁴ cells/cm²

Fluid renewal Every 3-5 days

Post-Thaw Recovery After thawing, seed cells into a T25 flask with 3 ml of DMEM + 10% FBS. Allow cells to recover for 24 hours before use.

Freeze medium DMEM + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells quickly in a 37°C water bath.
 2. Dilute cells into 3 ml of DMEM + 10% FBS.
 3. Seed cells into a T25 flask.
 4. Allow cells to recover for 24 hours.
 5. Seed cells into a T25 flask with 3 ml of DMEM + 10% FBS.
 6. Seed cells into a T25 flask with 3 ml of DMEM + 10% FBS.
 7. Seed cells into a T25 flask with 3 ml of DMEM + 10% FBS.
 8. Seed cells into a T25 flask with 3 ml of DMEM + 10% FBS.

