

Product sheet

SNU-387 | 305124

General Information

Description	SNU-387 is a human hepatocellular carcinoma (HCC) cell line, derived from a 41-year-old male patient with primary liver cancer. It is a highly tumorigenic, anchorage-dependent cell line that grows in suspension and adherent culture. SNU-387 is characterized by its high tumorigenicity in nude mice and its ability to form xenografts in immunodeficient mice. The cell line is negative for alpha-fetoprotein (AFP) and is highly sensitive to sorafenib. SNU-387 is a well-established model for studying HCC biology and drug response.
Organism	Human
Tissue	Liver
Disease	Hepatocellular carcinoma
Synonyms	SNU387, NCI-SNU-387

Cell Line Characteristics

Age	41 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Highly tumorigenic, anchorage dependent

Identification and Safety

Citation	SNU-387 (NCI SNU-387) Cytion 305124
Biosafety level	2
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0250

Additional Information

HEp-2 SNU-387 | 305124

Antigen expression HEp-2 O, Rh +

Viruses HBV

HEp-2

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements HEp-2 10% FBS

Dissociation Reagent Trypsin

Doubling time 61 hours

Subculturing HEp-2 cells are cultured in RPMI 1640 medium supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in RPMI 1640 medium supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 1-3 x 10⁶ cells per flask. Cells are cultured in 5% CO₂ at 37°C.

Split ratio 1:3 to 1:6

Fluid renewal 2 to 3 times per week

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 10-15 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂.
3. Monitor the cells for attachment and growth. Change the medium after 24-48 hours.
4. Once the cells are established, passage them into a new flask when they reach 70-80% confluency.
5. Use a pipette to transfer 15 mL of medium from the old flask to a new flask containing 8 mL of medium.
6. Add the cells to the new flask and mix gently. Incubate at 37°C with 5% CO₂.
7. Repeat the process every 2-3 days. Do not allow the cells to reach confluency in the old flask.
8. Maintain the cells in a medium containing 10% FBS. Do not use serum-free medium.

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

Flask Coating No coating

Freezing Procedure Harvest cells and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Ship at -80°C.

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

Genotype / HLA

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