

Product sheet

Cell Culture Capan-1 | 300143

Cell Culture Capan-1

Description Capan-1 is a cell line derived from a 40-year-old male patient with pancreatic adenocarcinoma. It is a highly metastatic cell line, with metastases found in the lungs, liver, and bone. Capan-1 is characterized by its high growth rate and its ability to form large, dense colonies. It is a highly metastatic cell line, with metastases found in the lungs, liver, and bone. Capan-1 is characterized by its high growth rate and its ability to form large, dense colonies. It is a highly metastatic cell line, with metastases found in the lungs, liver, and bone. Capan-1 is characterized by its high growth rate and its ability to form large, dense colonies.

Organism Human

Tissue Pancreas

Disease Pancreatic adenocarcinoma

Metastatic site Lung, Liver, Bone

Synonyms CaPan-1, CAPAN-1, Capan 1, CAPAN 1, Capan1, CAPAN1

Cell Culture Capan-1

Age 40 years

Gender Male

Morphology Epithelial

Growth properties High growth rate

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Citation Capan-1 (Cell Culture Cytion 300143)

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_0237

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed T25 flask containing 10 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium.
2. Incubate the cells at 37°C in 5% CO₂. When the cells reach 70-80% confluency, passage them into a T75 flask.
3. For long-term storage, harvest the cells into a 15 mL centrifuge tube and resuspend in 5 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Add 100 µL of cryoprotective medium and freeze at -150°C.
4. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed T25 flask containing 10 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium.
5. Incubate the cells at 37°C in 5% CO₂. When the cells reach 70-80% confluency, passage them into a T75 flask.
6. For long-term storage, harvest the cells into a 15 mL centrifuge tube and resuspend in 5 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Add 100 µL of cryoprotective medium and freeze at -150°C.
7. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed T25 flask containing 10 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium.
8. Incubate the cells at 37°C in 5% CO₂. When the cells reach 70-80% confluency, passage them into a T75 flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium, 100 µg/mL

Freezing Procedure Harvest cells into a 15 mL centrifuge tube and resuspend in 5 mL of complete medium. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 1 mL of complete medium. Add 100 µL of cryoprotective medium and freeze at -78°C.

Shipping Conditions Store at -78°C

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

Genotype / Phenotype / HLA

Sterility PCR genotyping of the cells confirmed the presence of the expected genetic markers. The cells are free of mycoplasma contamination.

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████████ HLA

- A***: '01:01:01, '30:01:01
- B***: 13:02:01, 57:01:01
- C***: 06:02:01
- DRB1***: 07:01:01, 13:05:01
- DQA1***: '02:01:01, '05:05:01
- DQB1***: '02:02:01, '03:01:01
- DPB1***: '03:01:01G, '04:01:01G
- E**: 01:01:01