

Caov-3 | 300319

Caov-3

Description	Caov-3 is a human ovarian cancer cell line established from a 54-year-old female patient. It is a highly aggressive, metastatic cell line that is characterized by its ability to form large, solid tumors in the peritoneal cavity. The cells are highly proliferative and are capable of invading surrounding tissues and metastasizing to distant sites. Caov-3 cells are highly sensitive to chemotherapy and are used as a model for studying ovarian cancer biology and treatment.
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Organism	Human
Tissue	Ovary
Disease	Ovarian cancer
Synonyms	CaOv-3, CaOV-3, CAOv-3, CAOv3, CaOV3, CaOv3, Caov3, CA-OV-3

Caov-3

Age	54 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Caov-3

Citation	Caov-3 (Cytion 300319)
Biosafety level	1
NCBI_TaxID	9606

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CellosaurusAccession CVCL_0201

Cell Line Name - Cell Line Number

Isoenzymes AK-1, 1, ES-D, 1, G6PD, B, GLO-I, 1-2, Me-2, 2, PGM1, 1, PGM3, 1

Cell Line Type

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 sodium pyruvate (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent TrypLE Express 10 min 37°C

Subculturing Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks.

Freeze medium Cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO. The suspension is aliquoted into cryovials and stored at -150°C.

Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C.
2. Dilute the cells into DMEM supplemented with 10% FBS.
3. Seed the cells into a 25 cm² flask.
4. Allow the cells to attach for 24 hours.
5. Change the medium to DMEM supplemented with 10% FBS.
6. Allow the cells to grow to 80-90% confluency.
7. Harvest the cells by trypsinization.
8. Seed the cells into a new flask.

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Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Freezing
Procedure

Cells are seeded into 25 cm² flasks and grown to confluence. Cells are then harvested by trypsinization and resuspended in freezing medium (DMEM, 10% FBS, 10% DMSO). The cell suspension is then frozen in a controlled rate freezer and stored at -78°C.

Shipping
Conditions

Cells are shipped on dry ice in a cool box and stored at -78°C.

Storage
Conditions

Cells are stored in liquid nitrogen at -150 °C for up to 196 days.

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Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for sterility using a sterility test kit. Cells are found to be free of mycoplasma and sterile.