

OVCA8 | 305383

General information

Description	OVCA8 is a human epithelial cell line derived from a serous cystadenocarcinoma of the ovary. It is a highly tumorigenic cell line that grows as a monolayer in the presence of 10% fetal bovine serum (FBS). OVCA8 cells are characterized by their high proliferation rate and their ability to form colonies in soft agar. OVCA8 cells are also characterized by their high sensitivity to cisplatin and paclitaxel. OVCA8 cells are a valuable tool for studying the biology of ovarian cancer and for testing new therapies.
Organism	Human
Tissue	Ovary
Disease	Ovarian cancer
Synonyms	OVCA8, NIH:OVCA8, OVCA8, Ovcar8, OVCA8, OVCA8, OVCA8/EGFP_LC3

Cell characteristics

Age	64 years
Gender	Female
Ethnicity	White
Morphology	Epithelial cells
Growth properties	High proliferation rate

Cell culture conditions

Citation	OVCA8 (Cell Culture) Cytion 305383
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1629

Cell culture media and supplements

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Mutational profile

CTNNB1, p.Gln26Arg (c.77A>G), ERBB2, p.Gly776Val (c.2327G>T), c.376-1G>A (p.Tyr126_Lys132del, c.376_396del21),

Cell line

Culture Medium

RPMI 1640, w: 2.1 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Doubling time

24-32 h

Split ratio

1:4

Seeding density

$3-4 \times 10^4$ cells/cm²

Freeze medium

10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C. Transfer cells to a tube containing 10 mL of pre-warmed complete medium. Mix gently and centrifuge at 300 x g for 5 min. Resuspend cells in 10 mL of complete medium and seed into a T25 flask.
2. Incubate cells in a humidified incubator at 37°C with 5% CO₂. Monitor cell growth and confluency.
3. Once cells are confluent, passage them into a new T25 flask using a 1:4 split ratio.
4. Maintain cells in complete medium. Change medium every 3-4 days.
5. For freezing, resuspend cells in 10 mL of freezing medium (10% FBS + 10% DMSO) and seed into a T25 flask.
6. Once cells are confluent, passage them into a new T25 flask using a 1:4 split ratio.
7. For freezing, resuspend cells in 10 mL of freezing medium (10% FBS + 10% DMSO) and seed into a T25 flask.
8. Once cells are confluent, passage them into a new T25 flask using a 1:4 split ratio.

Product sheet

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Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Freezing
Procedure

Cells are seeded into 24-well plates and grown to confluence. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 mL vials and frozen at -78°C.

Shipping
Conditions

Cells are shipped on dry ice at -78°C.

Storage
Conditions

Cells can be stored at -150 to -196 °C for up to 1 year.

Cells are not recommended for use in

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for endotoxin levels. Cells are found to be free of mycoplasma and endotoxin.

Cells are tested for sterility using a membrane filtration method. Cells are found to be sterile.