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## Product description

Tumorigenic epithelial ovarian cancer cell line derived from malignant tumour of a patient never exposed to chemotherapy or radiation therapy. Cell line retains characteristics of the original epithelial ovarian cancers from which it was derived.

**Name:** TOV-21G cell line

**Disease:** Cancer

**Cancer:** Ovarian cancer

**Cancer detailed:** Clear cell carcinoma

**Organism:** Human

**Gender:** Female

**Tissue:** Ovary

**Donor:** 62-year-old chemo naive female, Grade 3, Stage III.

**Mutations:** TGF-B-II Exon 3, RER phenotype

**Karyotype:** 47, XX, +10

**Tumorigenic:** Yes

**Growth properties:** Adherent

**CRISPR Edited:** No

**Biosafety Level:** BSL-1

**Cellosaurus ID:** CVCL\_3613

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## Contributor(s)

**Inventor(s):** Anne-Marie Mes-Masson and Diane Provencher

**Institute:** Centre Hospitalier de L'université de Montréal

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## Properties

**Product format:** Frozen

**Unpacking and storage:**

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

**Recommended medium:** OSE medium consisting of 50:50 medium 199:105 (Sigma), with 2.5 µg/mL amphotericin B and 50 µg/mL gentamicin.

**Subculture:** Split confluent cultures 1:3, using 0.25% trypsin or trypsin/EDTA, 5% CO<sub>2</sub>, 37°C.

**Culture conditions:** 37.0°C ± 1.0°C incubator with 21% O<sub>2</sub> and 5.0% ± 1.0% CO<sub>2</sub>

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### Handling instructions

1. Please ensure that vials are frozen when received, and store at **<-130 °C long term**. When removing frozen cells from storage, it is important to minimize exposure to room temperature (15 - 25°C). If not proceeding directly to thawing, place the cells on dry ice or in a liquid nitrogen container.
2. **Do not thaw at room temperature.** To thaw, swirl the vial quickly in a 37 °C water bath with O-ring and cap above the water to avoid contamination. Remove from the water bath with a small ice pellet remaining (this should not take more than 2 minutes) and wipe the exterior with 70% ethanol or isopropanol before transferring to a biosafety cabinet. Further steps should be conducted under aseptic conditions.
4. Immediately transfer the thawed cell suspension to a 100 mm culture dish containing 7 mL of media. Allow the cells to settle overnight and replace the culture medium the next morning. Incubate until >80% confluent.

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### References

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- Provencher et al. 2000. In Vitro Cell Dev Biol Anim. (36): 357–361. PMID:10949993

### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: TOV-21G cell line, was invented by Anne-Marie Mes-Masson and Diane Provencher (CancerTools.org #161764).

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