

Product sheet

KYSE520 | 305449

General Information

Description	<p>KYSE520 is a cell line derived from a patient with Endometrial Squamous Cell Carcinoma (ESCC). It is a highly proliferative cell line that is sensitive to cisplatin and paclitaxel. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor 1 (IGF1). The cell line is characterized by its high growth rate and its ability to form colonies in soft agar.</p> <p>KYSE520 cells are highly sensitive to cisplatin and paclitaxel. The cell line is also sensitive to other chemotherapeutic agents such as carboplatin, gemcitabine, and irinotecan. The cell line is used in preclinical studies to evaluate the efficacy of new anticancer drugs.</p> <p>KYSE520 cells are highly sensitive to cisplatin and paclitaxel. The cell line is also sensitive to other chemotherapeutic agents such as carboplatin, gemcitabine, and irinotecan. The cell line is used in preclinical studies to evaluate the efficacy of new anticancer drugs.</p>
Organism	Human
Tissue	Endometrium
Disease	Endometrial Squamous Cell Carcinoma
Synonyms	KYSE 520, KYSE-520, Kyse520, KYSE0520

Cell Line Characteristics

Age	58 years
Gender	Female
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Highly proliferative, sensitive to cisplatin and paclitaxel

References and Safety

Citation	KYSE520 (ATCC CCL-222) Cytion 305449
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1355

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. **Centrifugation:** Centrifuge the cells at 300 x g for 3 minutes at 4°C. Remove the supernatant and resuspend the cells in pre-warmed medium.
3. **Seeding:** Seed the cells into a 15 cm² flask containing 8 ml of pre-warmed medium. The final cell concentration should be approximately 1 x 10⁶ cells/ml.
4. **Medium Change:** After 24 hours, change the medium to fresh pre-warmed medium. The medium should be replaced every 3-4 days.
5. **Confluency:** The cells should reach 70-80% confluency within 7-10 days. Do not allow the cells to reach confluence.
6. **Passaging:** Pass the cells into a new flask when they reach 70-80% confluency. Use a trypsin solution to detach the cells.
7. **Storage:** Store the cells in a liquid nitrogen vapor phase for long-term storage. The storage time can be up to 10 years.
8. **Quality Control:** Perform PCR genotyping to confirm the identity of the cells. The results should be compared to the reference sequence.

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

Flask Coating None

Freezing Procedure Harvest cells at 70-80% confluency. Wash with PBS, add 1 ml of freezing medium, and centrifuge at 300 x g for 3 minutes. Resuspend the pellet in 100 µl of freezing medium and store in a cryovial in a liquid nitrogen vapor phase.

Shipping Conditions Store at -78°C in a dry ice container. Ship via express courier.

Storage Conditions Store at -150°C in a liquid nitrogen vapor phase. The storage time can be up to 196 weeks.

Genotype / HLA

Sterility The cells are free of mycoplasma contamination. PCR genotyping confirmed the identity of the cells. The cells are free of endotoxins.