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Product Information

Human Ovarian Surface Epithelial Cells (HOSEpC)

Catalog Number	10HU-107	**Cell Number**	0.5 million cells/vial
Species	*Homo sapiens*	**Storage Temperature**	Liquid Nitrogen

Description

The ovary is covered by a single layer of surface epithelial cells (HOSEpC) where in vivo morphology varies from squamous to cuboidal to low columnar. HOSEpC actively participate in cyclical ovulatory follicular rupture and the subsequent repair [1]. HOSEpC express a variety of peptide hormones, sex steroids, growth factors, and receptors. Many of these biological agents have been implicated in the development of epithelial ovarian carcinomas [2] and sexually transmitted infections [3]. Understanding aberrations in the corresponding cellular pathways is of great clinical importance as they provide useful information regarding HOSEpC cell survival, apoptosis, transformation, and function during disease development and potential markers for disease treatment.

iXCells Biotechnologies provides high quality HOSEpC, which are isolated from human ovary and cryopreserved at P1, with >0.5 million cells in each vial. HOSEpC express cytokeratine-14, -18, and -19. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand in Epithelial Cell Growth Medium (Cat# MD-0041) under the condition suggested by iXCells Biotechnologies.

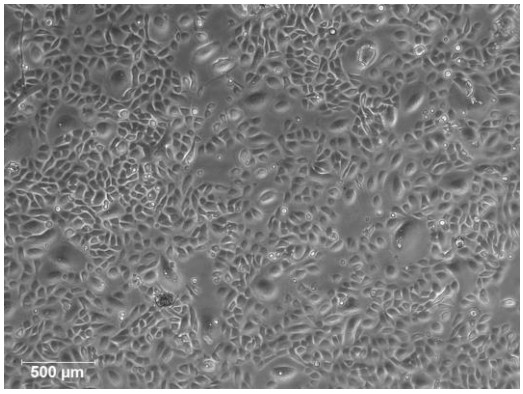

Figure 1. Phase contrast image of Human Ovarian Surface Epithelial Cells (HOSEpC).

Product Details

Tissue	Normal human ovary
Package Size	0.5 x 10^6 cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Epithelial Cell Growth Medium (Cat# MD-0041)

Protocols

Thawing of Frozen Cells

1. Upon receipt of the frozen cells, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.
2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for 1-2 minutes. Keep the cap out of water to minimize the risk of contamination.
3. Pipette the cells into a 15 mL conical tube with 5ml fresh Epithelial Cell Growth Medium (Cat# MD-0041).
4. Centrifuge at 1,000 rpm (~220 g) for 5 minutes under room temperature.
5. Remove the supernatant and resuspend the cells in fresh Epithelial Cell Growth Medium.
6. Culture the cell in the T75 flask. Change the medium every other day until cells reach 80-90% confluence.

Safety Precaution: *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

Standard Culture Procedure

1. HOSEpC can be cultured in Epithelial Cell Growth Medium (Cat# MD-0041).
2. When cells reach ~80-90% confluence, remove the medium, and wash once with sterile PBS (5mL for one T75 flask).
3. Add 3 mL of 0.25% Trypsin-EDTA to the flask and incubate for 5 minutes at 37°C. Neutralize the enzyme by adding 2-3 volumes of cell culture medium.
4. Centrifuge 1,000 rpm (~220 g) for 5 minutes and resuspend the cells in desired volume of medium.
5. Seed the cells in the new culture vessels at 5 × 10^3 cells/cm^2. Change the medium every other day until cells reach 80-90% confluence.

References

[1]. Murdoch WJ. (1995) Endothelial cell death in preovulatory ovine follicles: possible implication in the biomechanics of rupture. J Reprod Fertil 1995; 105:161-164.

[2]. Katabuchi H, Okamura H. (2003) Cell biology of human ovarian surface epithelial cells and ovarian carcinogenesis. Medical Electron Microscopy 36(2):74-86.

Disclaimers