

Product sheet

HEC-1-A | 305077

HEC-1-A

Description

HEC-1-A is a human endometrial epithelial cell line. It is a continuous cell line derived from a 71-year-old woman with endometrial cancer. The cells are characterized by their ability to form multicellular spheroids in culture. HEC-1-A cells are highly proliferative and have a doubling time of approximately 24 hours. They are commonly used in research related to endometrial cancer and its treatment.

Organism Human

Tissue Endometrium

Disease Endometrial cancer

Synonyms HEC-1-A, HEC-1A, HEC1-A, HEC1A, HEC1A, HEC1A

HEC-1-A

Age 71

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

HEC-1-A

Citation HEC-1-A (ATCC CCL-231) | 305077

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0293

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| Receptors expressed | HER2, EGFR, PDGFR, IGF1R, VEGFR, EphA2, EphA2, EphA2 (PAF) |
| Protein expression | HER2, EGFR, C-Fos |
| Antigen expression | HER2, B-Rh |
| Tumorigenic | Yes |

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|-----------------------------|--|
| Culture Medium | DMEM 5% FBS / 3.0 g/l NaHCO3 (HEPES) 2.0 g/l NaHCO3 (HEPES) 2.2 g/l NaHCO3 (HEPES) |
| Supplements | 10% FBS |
| Dissociation Reagent | Trypsin |
| Subculturing | 1:2 to 1:3 in DMEM 5% FBS |
| Fluid renewal | 2 to 3 times per week |
| Freeze medium | DMEM 10% FBS + 10% DMSO |

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Thawing and Culturing Cells

1. Thaw the vial in a 37°C water bath. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 mL of DMEM supplemented with 10% FBS. Seed the cells into a 25 cm² flask.
2. Incubate the cells in a 37°C incubator with 5% CO₂ until they reach 70-80% confluency.
3. Harvest the cells by trypsinization. Seed the cells into a 25 cm² flask with DMEM supplemented with 10% FBS.
4. Incubate the cells in a 37°C incubator with 5% CO₂ until they reach 70-80% confluency.
5. Harvest the cells by trypsinization. Seed the cells into a 25 cm² flask with DMEM supplemented with 10% FBS.
6. Incubate the cells in a 37°C incubator with 5% CO₂ until they reach 70-80% confluency.
7. Harvest the cells by trypsinization. Seed the cells into a 25 cm² flask with DMEM supplemented with 10% FBS.
8. Incubate the cells in a 37°C incubator with 5% CO₂ until they reach 70-80% confluency.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

Flasks are pre-coated with poly-L-lysine.

Freezing Procedure

Harvest cells by trypsinization and resuspend in freezing medium. Seed into a 25 cm² flask with DMEM supplemented with 10% FBS. -78°C

Shipping Conditions

Store at -78°C. Shipping at -78°C.

Storage Conditions

Store at -150°C to -196°C.

HEC-1-A / HLA

Sterility

HEC-1-A cells are tested for sterility using PCR. Sterility is confirmed. HEC-1-A cells are tested for sterility using PCR. Sterility is confirmed.