

Product sheet

AU565 | 305313

General information

Description AU565 is a human breast cancer cell line that is highly sensitive to HER2-targeted therapy. It is characterized by overexpression of the HER2 receptor and is used as a model for studying HER2-positive breast cancer. The cell line is derived from a primary tumor and is maintained in culture as a monolayer of epithelial cells. It is highly proliferative and is used for various applications, including drug screening, mechanistic studies, and preclinical testing of HER2-targeted therapies.

Organism Human

Tissue Breast

Disease Breast cancer

Metastatic site Lymph nodes, lung, liver, brain

Synonyms AU-565, AU 565

Cell characteristics

Age 43 passages

Gender Male

Ethnicity Caucasian

Morphology Epithelial, adherent

Growth properties High growth rate

Documentation

Citation AU565 (ATCC CCL-221) | Cytion 305313

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1074

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Thawing and Culturing Cells

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. 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 fresh medium.
3. **Seeding:** Seed the cells into a 15 cm² flask at a density of 1.5 x 10⁶ cells per flask. Incubate at 37°C with 5% CO₂.
4. **Medium Change:** After 24 hours, replace the medium with fresh medium to remove any dead cells.
5. **Passaging:** Once cells reach 70-80% confluency, passage them into a new flask.
6. **Freezing:** For long-term storage, freeze the cells in a freezing medium and store at -80°C.
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Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Coated with fibronectin

Freezing Procedure

Freeze cells in freezing medium and store at -80°C

Shipping Conditions

Ship cells at -80°C

Storage Conditions

Store cells at -150°C for 196 weeks

AAU565 / AAU565 / HLA

Sterility

Cells are tested for sterility using PCR

Cells are tested for sterility using PCR