

Product sheet

CELL CAL-33 | 305496

CELL INFORMATION

Description	CELL CAL-33 is a human cell line derived from a patient with metastatic breast cancer. CAL-33, also known as BT-20, is a cell line that is highly sensitive to tamoxifen. CAL-33 cells are characterized by their ability to form mammary gland-like structures in vivo. CAL-33 cells are used in research to study the mechanisms of tamoxifen resistance and to develop new therapeutic strategies for breast cancer treatment.
Organism	Human
Tissue	Breast
Disease	Metastatic breast cancer
Synonyms	Cal-33, CAL 33, CAL33, CAL-SCC-33, BT-20, BT-20-33

CELL CHARACTERISTICS

Age	69 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent, Monolayer

CELL IDENTIFICATION

Citation	CAL33 (CELL CAL-33) Cytion 305496
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1108

CELL AVAILABILITY

Cell Line CAL-33 | 305496

Mutational profile TP53, p.Arg175His (c.524G>A), TP53, p.Arg175His (c.524G>A), TP53, p.Arg175His (c.524G>A), TP53, p.Arg175His (c.524G>A)

Cell Line

Culture Medium DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO3, w: 1.0 mM sodium pyruvate (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing 1-2 x 10^4 cells per well in 96-well plates, 1-2 x 10^5 cells per well in 24-well plates, 1-2 x 10^6 cells per well in T25 flasks, 1-2 x 10^7 cells per well in T75 flasks

Seeding density 1 - 2 x 10^4 cells/well

Freeze medium FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw vials quickly in a 37°C water bath.
 2. Transfer cells to a sterile tube and centrifuge at 300 x g for 3 minutes.
 3. Remove supernatant and resuspend cells in 10 ml of pre-warmed culture medium.
 4. Seed cells into a T25 flask at a density of 1-2 x 10^5 cells per well.
 5. Incubate cells in a humidified CO2 incubator at 37°C.
 6. Monitor cell growth and confluency.
 7. Once cells reach 70-80% confluency, passage them into a new flask.
 8. Repeat the process for subsequent passages.

