

Product sheet

JIMT-1 | 305433

General Information

Description	JIMT-1 is a cell line derived from a patient with HER2-positive breast cancer. It is characterized by high levels of HER2 expression and is used for studying HER2-targeted therapies. JIMT-1 is a cell line derived from a patient with HER2-positive breast cancer. It is characterized by high levels of HER2 expression and is used for studying HER2-targeted therapies. JIMT-1 is a cell line derived from a patient with HER2-positive breast cancer. It is characterized by high levels of HER2 expression and is used for studying HER2-targeted therapies.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Metastatic
Synonyms	JIMT1, JIMT

Cell Line Characteristics

Age	62 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent, High growth rate

Usage and Safety

Citation	JIMT-1 (Cell Line) Cytion 305433
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2077

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Cell Line

Oncogenes HER-2 (HER-2, ER-, PR-, AR-

Mutational profile PIK3CA, p.Cys420Arg (c.1258T>C), TP53, p.Arg248Trp (c.742C>T),

Cell Line

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

Supplements 10% FBS

Dissociation Reagent

Subculturing 3-5 x 10^4 cells per well in 100 µl medium

Seeding density 1 x 10^4 cells per well

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. After thawing, centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of fresh medium. Seed the cells into a T25 flask.
2. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
3. Harvest the cells by trypsinization and seed them into a new T25 flask.
4. Repeat the process for subsequent passages.
5. For long-term storage, harvest the cells and freeze them in a cryovial with 150 µl of freezing medium. Store at -150°C.
6. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. After thawing, centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of fresh medium. Seed the cells into a T25 flask.
7. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
8. Harvest the cells by trypsinization and seed them into a new T25 flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Harvest cells and freeze in 150 µl of freezing medium at -150°C.

Shipping Conditions Store at -150°C.

Storage Conditions Store at -150°C for up to 196 days.

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR detectable viruses.