

JIMT-1 | 305433

General information

Description	JIMT-1 is a human breast cancer cell line that is highly sensitive to HER2-targeted therapy. It is derived from a primary tumor and is characterized by high levels of HER2 expression. JIMT-1 is a highly aggressive cell line that is capable of forming large, invasive tumors in nude mice. It is also highly sensitive to HER2-targeted therapy, including trastuzumab and lapatinib. JIMT-1 is a valuable model for studying the biology of HER2-positive breast cancer and for testing new therapies.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Brain, lung, liver, bone
Synonyms	JIMT1, JIMT

Cell characteristics

Age	62 years
Gender	Female
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Adherent, slow growing

Cell line identification

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

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Oncogenes	HER-2 (neu), ER-, PR-, AR-
Mutational profile	PIK3CA, p.Cys420Arg (c.1258T>C), TP53, p.Arg248Trp (c.742C>T)
Culture Medium	DMEM, w: 4.5 g/L , w: 4 mM L- , w: 3.7 g/L NaHCO ₃ , w: 1.0 mM (Cytion 8203
Supplements	10% FBS
Dissociation Reagent	
Subculturing	-PBS T25, -3-5 " PBS, 3 . ,
Seeding density	1 x 10 ⁴ /
Freeze medium	(FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将冻存管放入 37°C 水浴中快速解冻，避免反复冻融。解冻后将细胞悬液转移至离心管中，离心（300 x g，5 分钟）。弃去上清液，加入适量培养基。
2. 将细胞悬液接种至培养瓶中，轻轻混匀。将培养瓶置于 37°C、5% CO₂ 培养箱中培养。待细胞贴壁后，更换新鲜培养基。
3. 细胞贴壁后，将培养基更换为无血清培养基，继续培养 24 小时。然后加入适量生长因子，继续培养。
4. 当细胞达到 70% 汇合度时，进行传代培养。将细胞悬液转移至新的培养瓶中，加入新鲜培养基。
5. 细胞传代后，将培养基更换为无血清培养基，继续培养 24 小时。然后加入适量生长因子，继续培养。
6. 细胞传代后，将培养基更换为无血清培养基，继续培养 24 小时。然后加入适量生长因子，继续培养。
7. 细胞传代后，将培养基更换为无血清培养基，继续培养 24 小时。然后加入适量生长因子，继续培养。
8. 细胞传代后，将培养基更换为无血清培养基，继续培养 24 小时。然后加入适量生长因子，继续培养。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

**Freezing
Procedure**

将细胞悬液转移至冻存管中，加入适量冻存液。将冻存管置于 -80°C 冰箱中冷冻。

**Shipping
Conditions**

将冻存管置于冰袋中，置于 2-8°C 条件下运输。

**Storage
Conditions**

将冻存管置于 -150°C 液氮中储存，有效期为 196 个月。

细胞鉴定与质量控制

Sterility

细胞悬液经 PCR 检测，无支原体污染。细胞悬液经显微镜检查，无细菌污染。