

Product sheet

HuT-78 | 300338

General Information

Description	HuT-78 is a human T cell leukemia virus type I (HTLV-I) transformed T cell line. It is a clonal cell line derived from a patient with T-cell hairy-cell leukemia. The cells are highly tumorigenic and have been used in various studies to investigate the role of HTLV-I in T-cell leukemia. HuT-78 cells are characterized by their high proliferation rate and their ability to form colonies in soft agar. They are also known for their resistance to apoptosis and their ability to express various surface markers, including CD4, CD45, CD45RO, CD45RA, CD45RB, CD45RC, CD45RD, CD45RE, CD45RF, CD45RG, CD45RH, CD45RI, CD45RJ, CD45RK, CD45RL, CD45RM, CD45RN, CD45RO, CD45RP, CD45RQ, CD45RR, CD45RS, CD45RT, CD45RU, CD45RV, CD45RW, CD45RX, CD45RY, CD45RZ, CD45RA, CD45RB, CD45RC, CD45RD, CD45RE, CD45RF, CD45RG, CD45RH, CD45RI, CD45RJ, CD45RK, CD45RL, CD45RM, CD45RN, CD45RO, CD45RP, CD45RQ, CD45RR, CD45RS, CD45RT, CD45RU, CD45RV, CD45RW, CD45RX, CD45RY, CD45RZ.
Organism	Human
Tissue	T cell
Disease	Human T-cell leukemia virus type I (HTLV-I) infection
Synonyms	Hut 78, HUT 78, HuT 78, HUT-78, HuT78, Hut78, HUT78, NCI-H78

Cell Culture

Age	53 years
Gender	Male
Ethnicity	Japanese
Morphology	Clonal T cell
Cell type	CD4+ T cell
Growth properties	Adherent

References

Citation	HuT-78 (ATCC CCL-221) Cytion 300338
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_0337

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XXXX HuT-78 | 300338

XXXXXXXX XX-XXXXXXXXXXXX

Receptors expressed XXXXXXXXXXXX-2 (XXXXXXXXXXXX 2, IL-2)

Protein expression P53 XXXXX

Antigen expression CD4

Products XXXXXXXXXXXX-2 (XXXXXXXXXXXX 2, IL-2), XXXX XXX XXXXXXX XXXX (TNF XXXX)

XXXXXX

Culture Medium RPMI 1640, w: 2.0 mM XXXXXXX XXXX, w: 2.0 g/L NaHCO3 (XXXX XXXXXXX XXX Cytion 820700a)

Supplements XXXX XXXXX 10% FBS XXXXXXX XXXX

Subculturing XXXX XXX XXXXXXX⁵ XXXX/XXXX⁵ XXXX⁶ XXXX XXXXXXX XXXXXXX XXXX 5 x 10

Seeding density 1 x 10⁵ XXXX/XX'

Fluid renewal 2 XXX 3 XXXXXXX XXXXXXX

Post-Thaw Recovery XXXX XXXXX XXXXXXX XXXXXXX XXXXXXX XXXX 24 XXX 48 XXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXX, XXX XXXXXXX XXXXXXX XXXXXXX XXXX (XXXX FBS) + 10% DMSO XXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX, XXX C

HuT-78 | 300338

Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to remain at room temperature for more than 5 minutes.
2. Add the cells to a pre-warmed medium in a flask. Incubate at 37°C in a humidified atmosphere of 5% CO₂.
3. After 24 hours, check the cells for attachment. If the cells do not attach, try to re-plate them.
4. Once the cells are attached, change the medium to fresh pre-warmed medium.
5. After 24 hours, check the cells for attachment. If the cells do not attach, try to re-plate them.
6. Once the cells are attached, change the medium to fresh pre-warmed medium.
7. After 24 hours, check the cells for attachment. If the cells do not attach, try to re-plate them.
8. Once the cells are attached, change the medium to fresh pre-warmed medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells into a vial containing 1 ml of freezing medium. Freeze at -80°C.

Shipping Conditions Store at -80°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.

██████ HuT-78 | 300338

██████ HLA

A*: 01:01:01

B*: 15:01:01

C*: 03:03:02

DRB1*: 04:01:01

DQA1*: 03:01:01

DQB1*: 03:02:01

DPB1*: 04:01:01

E: 01:03:02