Hut78

CSI443Hu11

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jul, 2024)

[DESCRIPTION]

HuT 78 is a cutaneous T-lymphocyte cell line derived from a 53-year-old, White, male patient with Sezary Syndrome. This cell line can be used in immunology and immunooncology research.
Synonyms: HUT 78; HuT-78; HUT-78; HuT78; Hut78; HUT78; NCI-H78
Organism: Homo sapiens, human
Tissue Source: Peripheral blood
Age: 53 years
Gender: Male
Disease: Sezary Syndrome
Cell Type: Cutaneous T lymphocyte
Morphology: Lymphoblast
Growth Properties: Suspension

[PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion).
Formulation: Frozen 1 mL or T25 flask.
Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.
Applications: For research use only. It is not approved for human or animal use, or for application in clinical diagnostic procedures.
Size: >5×10^5cell/vial

[STORAGE]

Upon receiving, check all containers for leakage or breakage. directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.
Form & Buffer: Supplied as solution form in frozen stock solution, containing 50% base medium +40%FBS+10%DMSO.
Storage conditions: liquid nitrogen

[USAGE]

Culture conditions:
Complete growth medium：IMDM+20%FBS+1%Penicillin-Streptomycin Solution
Temperature: 37°C
Condition: 95% air, 5% carbon dioxide

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Cell recovery:

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. The thawing time is about 2 minutes.
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 75% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0mL complete culture medium. and spin at approximately 1000 rpm for 5 minutes.
4. Resuspend cell pellet with the recommended complete medium. and dispense into a T25 culture flask.
5. Incubate the culture at 37°C, 5% CO_2 in a suitable incubator.

Cell passage:

The cells are suspended cells, and maintain cultures at a cell concentraion between 5×10^4 and 8×10^5 viable cells/mL. Do not allow the cell density to exceed 1×10^6 cells/mL. Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 2×10^5 viable cells/mL, Some cells can attach and be transferred by shaking them loose, and centrifugal speed reference 1200 rpm centrifuge 3 min. According to culture experience, it is recommended to use the "half-change solution method" for passage, that is, directly add an equal amount of fresh culture solution to the cell culture bottle, then the cells are blown evenly and transferred to two new T25 culture bottles for further culture.Depending on cell density, it is recommended to add fresh medium every 2-4 days.

[Shipping]

Dry ice.

[IMPORTANTNOTE]

1. This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.
2. To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.
3. After cell recovery, please take regular microscopic examination and photos to record the growth status of cells.
4. Read the instructions carefully, and keep and operate in strict accordance with the instructions. If you observe abnormalities or have questions about cell culture operations, please contact us in time.

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