

Product sheet

MOLT-3 | 300116

General Information

Description	MOLT-3 is a human T cell leukemia virus type 1 (HTLV-1) transformed T cell line established from a 19-year-old patient with acute leukemia (ALL), characterized by high expression of CD5 (97%) and CD7 (97%), and low expression of CD1 and CD4. MOLT-3 is a T cell leukemia virus type 1 (EBV) negative cell line.
Organism	Human
Tissue	Leukemia
Disease	Acute leukemia (ALL)
Synonyms	Molt-3, MOLT 3, Molt 3, MOLT3, Molt3

Characteristics

Age	19 years
Gender	Male
Ethnicity	Japanese
Morphology	Large, round cells
Cell type	T cell
Growth properties	Adherent

References and Safety

Citation	MOLT-3 (ATCC CCL-241) Cytion 300116
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0624

HEK293T MOLT-3 | 300116

HEK293T MOLT-3 - BACKGROUND INFORMATION

Antigen expression CD1(+), CD5(+), CD7(+), CD11a(+) (Greenberg et al. 1988).

Karyotype 46,XY

HEK293T

Culture Medium RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements CaCl_2 10% FBS

Doubling time 24-48 h

Subculturing 1:5, 1:6, 1:10

Seeding density 0.5×10^5 cells/cm²

Freeze medium CaCl_2 free medium, 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells quickly in a 37°C water bath, then transfer to a 15 mL centrifuge tube containing 10 mL of pre-warmed culture medium.
2. Centrifuge cells at 300 x g for 3 minutes, discard the supernatant, and resuspend the cell pellet in 1 mL of pre-warmed culture medium.
3. Count the cells and seed them into a 25 cm² flask at a density of 1.5 x 10⁵ cells/cm².
4. After 24 hours, check the cell density. If the cells are not growing, add 10% FBS to the medium.
5. Once the cells are growing, reduce the FBS concentration to 5%.
6. When the cells reach 70% confluency, seed them into a new flask at a density of 1.5 x 10⁵ cells/cm².
7. After 24 hours, check the cell density. If the cells are not growing, add 10% FBS to the medium.
8. Once the cells are growing, reduce the FBS concentration to 5%.

