

Product sheet

MOLT-3 | 300116

General Information

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| 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 |

Donor Information

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|--------------------------|--------------------|
| Age | 19 years |
| Gender | Male |
| Ethnicity | Japanese |
| Morphology | Large, pleomorphic |
| Cell type | Leukemia T |
| Growth properties | Adherent |

References and Safety

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

HEK293T MOLT-3 | 300116

HEK293T MOLT-3 - HEK293T-1

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 pre-warmed medium.
 2. Centrifuge cells at 300 x g for 3 min, wash cells with PBS, and resuspend in fresh medium.
 3. Seed cells into a 37°C incubator with 5% CO₂.
 4. Monitor cell growth and reach 70% confluency.
 5. Harvest cells at 15 min and 8 min.
 6. Harvest cells at 300 x g for 3 min.
 7. Harvest cells at 10 min.
 8. Harvest cells at 10 min.

