

Product sheet

MOLT-4 | 300115

General Information

Description	MOLT-4 is a human T cell leukemia virus type 1 (HTLV-1) derived cell line. It is a clonal population of T cells from a patient with T-cell hairy-cell leukemia (ALL) established in 1971. MOLT-4 cells are highly tumorigenic and are used for the study of HTLV-1 biology and as a model for T-cell leukemia. MOLT-4 cells are highly tumorigenic and are used for the study of HTLV-1 biology and as a model for T-cell leukemia. MOLT-4 cells are highly tumorigenic and are used for the study of HTLV-1 biology and as a model for T-cell leukemia.
Organism	Human
Tissue	Leukemia
Disease	Human T-cell leukemia virus type 1 (HTLV-1) infection
Synonyms	Molt-4, MOLT 4, Molt 4, MOLT.4, MOLT4, Molt4, GM02219, GM02219C, GM2219C, GM02219D

Characteristics

Age	19 years
Gender	Male
Ethnicity	Japanese
Morphology	Large, round, clonal
Cell type	CD4+ T cells
Growth properties	Adherent

References

Citation	MOLT-4 (HTLV-1 derived) Cytion 300115
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0013

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath, and transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
3. Seed the cells into a 96-well plate (100,000 cells per well) in DMEM medium supplemented with 10% FBS.
4. Incubate the cells at 37°C in 5% CO₂ until they reach 70% confluency.
5. Seed the cells into a 96-well plate (100,000 cells per well) in DMEM medium supplemented with 10% FBS.
6. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
7. Seed the cells into a 96-well plate (100,000 cells per well) in DMEM medium supplemented with 10% FBS.
8. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells at 70-80% confluency, wash with PBS, and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150°C for up to 196 weeks.

HEK293T / HEK293T / HLA

Sterility HEK293T cells are tested for mycoplasma contamination using PCR. HEK293T cells are tested for mycoplasma contamination using PCR.

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██████ HLA

A*: '01:01:01, '25:01:01

B*: '18:01:01, '57:01:01

C*: '06:02:01, '12:03:01

DRB1*: '07:01:01, '12:01:01

DQA1*: '02:01:01, '05:05:01

DQB1*: '02:02:01, '03:01:01

DPB1*: 02:01:02

E: '01:01:01G