

SUP-T1 | 305642

General information

Description	SUP-T1 is a T cell leukemia cell line (T-LBL), derived from a patient with T-cell acute lymphoblastic leukemia (T-ALL). It is characterized by a high proliferation rate and is used for studying T-cell leukemia. SUP-T1 cells are highly sensitive to CDKN2A inhibitors, which can be used to study the role of CDKN2A in T-cell leukemia. SUP-T1 cells are also used for studying the effects of various treatments on T-cell leukemia. (NGS) analysis of SUP-T1 cells has revealed a high degree of genomic instability, which is characteristic of T-cell leukemia.
Organism	Human
Tissue	Leukemia
Disease	Leukemia, T-cell
Synonyms	Sup-T1, SUPT-1, SupT-1, Sup T-1, SUP T-1, SUP T1, Sup T1, SupT1, SUPT1, Tsup-1, VB, T cell leukemia cell line 1

Cell characteristics

Age	8 weeks
Gender	Male
Ethnicity	Unknown
Morphology	Leukemia
Cell type	T cell
Growth properties	High proliferation rate

Additional information

Citation	SUP-T1 (Cytion: 305642)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1714

Product sheet

XXXX SUP-T1 | 305642

XXXXXXXX XX-XXXXXXXXXXXX

Protein expression	XXXXXXXXXXXX (XXXXXX)
Antigen expression	Leu-6 (CD1a) +; Leu-4 (CD3) +; Leu-3 (CD4) +; Leu-1 (CD5) +; Leu-9 (CD7) +; Leu-2a (CD8) +; OKT-10 (CD38) +
Mutational profile	XXXXXXXX EGFR, XXXXX p.Cys251Tyr (c.752G>A), XXXXXXXXXXXX; XXXXXX KIT, XXXXX p.Arg177His (c.530G>A), XXXXXXXXXXXX; XXXXX p.Glu545Asp (c.1635G>T), XXXXXXXXXXXX; XXXXXX PIK3CA, XXXXX p.Glu970Lys (c.2908G>A), XXXXXXXXXXXX; XXXXXX PTCH1, XXXXX p.Arg25Trp (c.73C>T), XXXXXXXXXXXX; XXXXXX TP53, XXXXX p.Arg267Leu (c.800G>T), XXXXXXXXXXXX
Karyotype	92, XXYY, -2, -2, -9, -9, XXXXXX XXXXXX XXXXXX 2inv(2*) (p21q11), +2inv(2*), del(2*)(Q21), 2del(4)(q31q35), 2del(5)(p13p14), 2del(6)(q23q27), 2inv(14)(q11q32), t(7;9)(q34;q34), der(9)t(7;9)
XXXXXXXX	
Culture Medium	RPMI 1640, w: 2.0 mM XXXXXXX XXXX, w: 2.0 g/L NaHCO3 (XXXX XXXXXX XX Cytion 820700a)
Supplements	XXXX XXXXX 10% FBS
Doubling time	28 XXXX
Seeding density	2–5 × 10 ⁵ XXXX/XX
Fluid renewal	2 XX 3 XXXXX XXXXX
Freeze medium	XXXXXXXX XXXXXX XXXXXX, XXX XXXXXXX XXXXXXX XXXXX XXXX (XXXX FBS) + 10% DMSO XXX XXXXXXX XXXXXXX XXXXX XXXXX XXXXX, XXX C

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**Thawing and
Culturing Cells**

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C孵育箱中培养。
2. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。
3. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C孵育箱中培养。
4. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于70%相对湿度中培养。
5. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于15" x 8" x 8"的培养瓶中培养。
6. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于300 x g离心3分钟，然后将细胞悬液缓慢加入含有培养基的细胞培养瓶中。
7. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于10" x 10" x 10"的培养瓶中培养。
8. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于T2培养瓶中培养。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

**Shipping
Conditions**

将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C液氮中冷冻保存。

**Storage
Conditions**

将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。

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Sterility

将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于PCR扩增仪中扩增。

将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于PCR扩增仪中扩增。