

Product sheet

Jurkat E6.1 | 300223

General information

Description Jurkat E6.1 is a T cell clone derived from Jurkat T cells. It is a CD4+ TCRαβ+ T cell line that is widely used in immunology research. The cells are maintained in culture with IL-2 and are characterized by their high proliferation rate and ability to produce IFN-γ and IL-2. Jurkat E6.1 cells are used to study T cell activation, signaling, and gene expression. The clone is derived from a 14-year-old male patient with acute T cell leukemia. Jurkat E6.1 cells are a derivative of the Jurkat T cell line, which was established from a T cell leukemia patient. The E6.1 clone is characterized by its high proliferation rate and ability to produce IFN-γ and IL-2. Jurkat E6.1 cells are used to study T cell activation, signaling, and gene expression. The clone is derived from a 14-year-old male patient with acute T cell leukemia.

Organism Human

Tissue T cell

Disease Acute T cell leukemia

Metastatic site Not applicable

Synonyms JurkatE6-1, Jurkat E6-1, Jurkat E6-1, Jurkat E6-1, Jurkat E6-1, Jurkat Clone E6-1, Jurkat (E6-1), Jurkat E6.1, JURKAT E-61, Jurkat-E6, Jurkat E6, J.E6-1, E6-1

Characteristics

Age 14 years

Gender Male

Morphology Lymphoblastoid

Cell type T cell

Growth properties High proliferation rate, dependent on IL-2

References and safety

Citation Jurkat E6.1 (ATCC CRL-5803) | 300223

Biosafety level 1

NCBI_TaxID 9606

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CellosaurusAccession CVCL_0367

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Antigen expression CD3

Products XXXXXXXXXXXX 2X XXXXXXXXXXXX 2X XXXXXXXXXXXX XXXXX

Karyotype XXXXX XXXXXXXXXXXX = 46X XXXXXXXX = 41 XXXX 47X XXXXXXXX XXXXXXXX XXX 46,xY,-2X-18X del(2)(p21p23)X del(18)(p11.2)

XXXXXXXXXX

Culture Medium RPMI 1640X 2.0 XXXXX XXXXXXXX XXXXXXXXXXXX XXXXXXXX 2.0 XX/XXXX NaHCO3 (XXXX XXXXXXXX 820700a XX XXXXXXXXXXXX)

Supplements XX XXXXXXXX XXXXXXXX X 10X XX XX FBS

Subculturing XXXXX XXX 5 5 6 XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXX XXXXXXXX 5 x 10

Seeding density 1 x 10⁵ XXXXX/XX

Fluid renewal XX XXXXXXXX

Post-Thaw Recovery XXXXX

Freeze medium XXXXXXXX XXXXXXXX XXXXXXXXXXXX XXXXXXXX XXX XXX XXXXX (XXXX XX XXX FBS) + 10% DMSO XX XXXX XXXXXXXXXXXX XXX XXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

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Thawing and Culturing Cells

1. [Redacted]
2. [Redacted]
3. [Redacted]
4. [Redacted]
5. [Redacted]
6. [Redacted]
7. [Redacted]
8. [Redacted]

Incubation Atmosphere 37 [Redacted]

Flask Coating [Redacted]

Freezing Procedure [Redacted]

Shipping Conditions [Redacted]

Storage Conditions [Redacted]

[Redacted] / [Redacted] / HLA

Sterility [Redacted]

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XXXXXXXX HLA

- A***: '03:01:01
- B***: '07:02:01, '35:03:01
- C***: '04:01:01, '07:02:01
- DRB1***: '07:01:01, '15:01:01
- DQA1***: '01:02:01, '02:01:01
- DQB1***: '02:02:01, '06:03:01
- DPB1***: '02:01:01:02XXXX'04:02:01X