

Product sheet

TF-1 | 300434

General Information

<b>Description</b>	TF-1 is a T cell derived from a 35 year old male patient in 1987. It is a CD4+ CD8- T cell, TF-1 is a T cell derived from a 35 year old male patient in 1987. It is a CD4+ CD8- T cell, TF-1 is a T cell derived from a 35 year old male patient in 1987. It is a CD4+ CD8- T cell.
<b>Organism</b>	Human (Homo sapiens)
<b>Tissue</b>	CD4+ T cell
<b>Disease</b>	Human Immunodeficiency Virus (HIV)
<b>Applications</b>	TF-1 is used for the study of T cell activation and differentiation. It is a T cell derived from a 35 year old male patient in 1987. It is a CD4+ CD8- T cell, TF-1 is a T cell derived from a 35 year old male patient in 1987. It is a CD4+ CD8- T cell.
<b>Synonyms</b>	TF1, MFD-1

Cell Characteristics

<b>Age</b>	35Y
<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Morphology</b>	CD4+ T cell
<b>Growth properties</b>	CD4+ T cell

Identification

<b>Citation</b>	TF-1 (Cytion 300434)
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_0559

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**Cell Line**

**Receptors expressed** TF-1 A I.

**Mutational profile** p.Gln61Pro, p.Ile251Thrfs\*94,

**Characteristics**

**Culture Medium** 60-70% RPMI 1640 + 20% h.i. FBS + 10-20% GM-CSF (1-5 ng/ml)

**Supplements** 10% FBS, IL-3

**Doubling time** 39 +/- 6, 22, ~70

**Subculturing** 5, 5, 6

**Seeding density**  $> 2 \times 10^5$  /ml

**Fluid renewal** 2-3

**Freeze medium** + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed cell culture flask containing 5-10 ml of complete medium.
2. Centrifuge the cells at 300 x g for 5 minutes at 4°C. Remove the supernatant and resuspend the cell pellet in 1 ml of complete medium.
3. Seed the cells into a pre-warmed cell culture flask containing 5-10 ml of complete medium. Incubate the cells at 37°C in a humidified CO<sub>2</sub> incubator.
4. After 24-48 hours, the cells should be visible. Remove the medium and replace it with fresh complete medium. The medium should be replaced every 2-3 days.
5. Once the cells have reached confluence, they can be used for experiments. The cells should be maintained in complete medium.
6. For long-term storage, the cells can be cryopreserved. Harvest the cells and resuspend them in 1 ml of cryopreservation medium. Seed the cells into a pre-warmed cell culture flask containing 5-10 ml of complete medium.
7. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed cell culture flask containing 5-10 ml of complete medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest the cells and resuspend them in 1 ml of cryopreservation medium. Seed the cells into a pre-warmed cell culture flask containing 5-10 ml of complete medium. Incubate the cells at 37°C in a humidified CO<sub>2</sub> incubator.

**Shipping Conditions** The cells should be shipped at 4°C. The cells should be shipped in a cool box with ice packs. The cells should be shipped in a pre-warmed cell culture flask containing 5-10 ml of complete medium.

**Storage Conditions** The cells should be stored at -150°C in 196 liquid nitrogen. The cells should be stored in a pre-warmed cell culture flask containing 5-10 ml of complete medium.

HLA

**Sterility** The cells are free of mycoplasma contamination. The cells are free of endotoxins. The cells are free of PCR inhibitors.

██████TF-1 | 300434

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██████ HLA

**A\***: '02:01:01, '33:03:01

**B\***: '44:03:01, '51:01:01

**C\***: '01:02:01, '14:03:01

**DRB1\***: '09:01:02G, '13:02:01

**DQA1\***: '01:02:01, '03:02:01

**DQB1\***: 03:03:02, 06:04:01

**DPB1\***: '02:01:02, '04:01:01

**E**: '01:01:01, '01:03:01