Product sheet

TF-1 Cells | 300434

General information

Organism	Homo sapiens (Human)
Tissue	Bone marrow
Disease	Acute erythroid leukemia
Synonyms	TF1, MFD-1

Characteristics

Age	35Y
Gender	Male
Ethnicity	Japanese
Morphology	lymphoblast
Growth properties	suspension

Regulatory Data

Citation	TF-1 (Cytion catalog number 300434)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0559

Biomolecular Data

Mutational profile	Mutation: p.Gln61Pro, Heterozygous; Mutation: p.Ile251Thrfs*94, Unspecified

Handling

TF-1 Cells | 300434

Culture Medium	60-70% RPMI 1640 + 20% h.i. FBS + 10-20% vol conditioned medium of cell line 5637 (DSM ACC 35) (or 1-5 ng/ml recombinant GM-CSF or IL-3)
Doubling time	39 +- 6 hours ; 22 hours ; ~70 hours
Freeze medium	As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability.
Thawing and Culturing Cells	1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit. 2. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required. 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains. 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening. 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently. 6. Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium. 7. Follow the procedure described under Post-Thaw Recovery
Incubation Atmosphere	37°C, 5% CO_2, humidified atmosphere.
Flask Coating	None
Shipping Conditions	Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately −78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

Storage Conditions	For long-term preservation, place vials in vapor-phase liquid nitrogen at about −150 to −196 °C. Storage at −80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

Quality Control & Molecular Analysis