

Product sheet

EFO-27 | 305769

General Information

Description	EFO-27 is a cell line derived from a patient with Ewing sarcoma, characterized by a t(11;22) translocation resulting in the EWSR1-FLI1 fusion gene. It is a highly proliferative, undifferentiated mesenchymal tumor cell line. EFO-27 is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 10% human platelet-derived growth factor (PDGF). EFO-27 is a highly proliferative, undifferentiated mesenchymal tumor cell line. EFO-27 is maintained in DMEM/F12 medium supplemented with 10% fetal boverse serum (FBS) and 10% human platelet-derived growth factor (PDGF). EFO-27 is a highly proliferative, undifferentiated mesenchymal tumor cell line. EFO-27 is maintained in DMEM/F12 medium supplemented with 10% fetal boverse serum (FBS) and 10% human platelet-derived growth factor (PDGF).
Organism	Human
Tissue	Soft tissue
Disease	Ewing sarcoma
Metastatic site	None
Synonyms	EFO 27, EFO27

Characteristics

Age	36 years
Gender	Male
Ethnicity	White
Cell type	Undifferentiated mesenchymal tumor
Growth properties	Highly proliferative

References and Safety

Citation	EFO-27 (EFO-27 Cytion 305769)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1192

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HEK293T EFO-27 - HEK293T EFO-27

Mutational profile PTEN, p.Lys267Argfs*9 (c.800delA) (p.Leu265fs, c.795delA), (Cosmic-CLP=906852), TP53, (c.817C>T), (Cosmic-CLP=906852)

HEK293T

Culture Medium RPMI 1640, w: 2.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements 20% FBS, 2.0 $\mu\text{g/L}$ L-Asparagine , 1% NEAA L-Valine

Dissociation Reagent Trypsin-EDTA

Doubling time 29 days

Seeding density 1×10^4 cells/cm²

Fluid renewal 2-3 days

Freeze medium DMEM , 10% FBS + 10% DMSO

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the cryovials containing the cells in a 37°C water bath. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. **Seeding:** Seed the cells into a T25 flask containing 10 ml of complete DMEM medium. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
3. **Passaging:** Once the cells reach 70-80% confluency, they can be passaged into a T75 flask containing 30 ml of complete DMEM medium.
4. **Media Change:** Change the medium every 2-3 days to ensure optimal growth conditions.
5. **Subculturing:** When the cells reach 70-80% confluency, they can be subcultured into a T75 flask containing 30 ml of complete DMEM medium.
6. **Freezing:** For long-term storage, seed the cells into a T25 flask containing 10 ml of complete DMEM medium. Once they reach 70-80% confluency, they can be frozen into cryovials.
7. **Storage:** Store the cryovials at -80°C until needed.
8. **Thawing:** Thaw the cryovials in a 37°C water bath and seed the cells into a T25 flask containing 10 ml of complete DMEM medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Shipping Conditions Store at -80°C

Storage Conditions Store at -150°C for 196 days

HEK293T / HEK293T / HLA

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