

Wilms10T | 300417

General information

Description

Wilms10T is a cell line derived from a Wilms tumor, a type of kidney cancer that primarily affects children. The cells are characterized by their ability to differentiate into various cell types, including epithelial and mesenchymal cells. This makes Wilms10T a valuable model for studying the biology of Wilms tumor and for testing potential therapeutic interventions. The cell line is maintained in a defined medium and is known for its high growth rate and stability over time.

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Organism Human

Tissue Kidney

Disease Wilms tumor

Applications Cell culture, drug screening, differentiation studies

Synonyms WT10

Characteristics

Age Not applicable

Gender Not applicable

Ethnicity Not applicable

Morphology Epithelial

Cell type Epithelial

Growth properties High growth rate

References

Citation Wilms10T (Cytion 300417)

Biosafety level 1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CVCL_A5SL

Cell Line ID CVCL_A5SL-1

Mutational profile WT1: del WT1 del11p13. LOH: -11p13 UPD -11p15. CTNNB1: del

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Culture Medium MSCGM (Lonza)

Dissociation Reagent

Doubling time 46

Subculturing PBS T25, 3-5' PBS, 3

Seeding density 4×10^4 /

Fluid renewal 1 2

Freeze medium (FBS) + 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 medium.
2. Seed the cells into a pre-warmed flask containing 15 mL of medium. Incubate at 37°C with 5% CO₂.
3. Once the cells have reached confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
4. Wash the cells with PBS. Resuspend in 1 mL of medium. Count the cells and seed into a new flask.
5. Incubate the cells at 37°C with 5% CO₂ until they reach confluence.
6. Harvest the cells by trypsinization. Wash with PBS and resuspend in 1 mL of medium.
7. Seed the cells into a new flask. Incubate at 37°C with 5% CO₂.
8. Repeat the process for subsequent passages.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells by trypsinization. Wash with PBS and resuspend in 1 mL of medium. Count the cells and seed into a new flask. Incubate at 37°C with 5% CO₂.

Shipping Conditions Ship at 4°C. Do not freeze.

Storage Conditions Store at -150°C in liquid nitrogen. 196 vials per vial.

Genotype / HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR confirmed.

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HLA

A*: '01:01:01, '11:01:01

B*: '18:01:01, '27:05:02

C*: '01:02:01, '12:03:01

DRB1*: '01:01:01, '11:04:01

DQA1*: '01:01:01, '05:05:01

DQB1*: '03:01:01, '05:01:01

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

E: 01:01:01