

KTC-1 | 305113

General information

Description	KTC-1 is a human colon cancer cell line, established from a primary tumor of a 68-year-old male patient. It is characterized by its ability to form spheroids in culture and its sensitivity to certain chemotherapeutic agents. KTC-1 is a well-established cell line used for studying colon cancer biology and drug response.
Organism	Human
Tissue	Colon
Disease	Colon cancer
Metastatic site	Colon
Synonyms	KTC1, KTC1naive

Cell characteristics

Age	68 years
Gender	Male
Morphology	Epithelial
Growth properties	Adherent

Identification and documentation

Citation	KTC-1 (Cytion 305113)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_6300

Additional information

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Overview

Culture Medium DMEM, w: 4.5 g/L D-glucose , w: 4 mM L- glutamine , w: 3.7 g/L NaHCO_3 , w: 1.0 mM NaCl (Cytion 820300a)

Supplements FBS 10%

Dissociation Reagent Trypsin

Doubling time 48 h

Subculturing Cells are grown in DMEM supplemented with 10% FBS in T25, 75 or 150 cm^2 flasks. When cells reach 70-80% confluency, they are trypsinized and seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium DMEM supplemented with 10% FBS + 10% DMSO (Cytion 820300a)

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C. Transfer the cells to a sterile tube and add 10 ml of DMEM supplemented with 10% FBS .
2. Centrifuge the cells at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 10 ml of DMEM supplemented with 10% FBS .
3. Seed the cells into a T25 flask containing 10 ml of DMEM supplemented with 10% FBS .
4. Incubate the cells at 37°C in 5% CO_2 .
5. When cells reach 70-80% confluency, they can be subcultured.
6. For subculturing, trypsinize the cells and seed them into a new T25 flask.
7. For freezing, trypsinize the cells and resuspend them in 1 ml of freeze medium.
8. Aliquot the cells into 1 ml vials and store them at -80°C.

Incubation Atmosphere 37°C, 5% CO_2

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