

TPC-1 | 305054

TPC-1

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | TPC-1 is a human epithelial cell line derived from a transitional cell carcinoma (PTC) of the bladder. It is a highly invasive and metastatic cell line, characterized by its ability to grow in vitro and in vivo. TPC-1 cells are highly resistant to cisplatin and paclitaxel, and are highly sensitive to irinotecan. TPC-1 cells are highly tumorigenic in nude mice, and are highly metastatic in athymic mice. TPC-1 cells are highly resistant to cisplatin and paclitaxel, and are highly sensitive to irinotecan. TPC-1 cells are highly tumorigenic in nude mice, and are highly metastatic in athymic mice. |
| Organism    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tissue      | Epithelial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Disease     | Transitional cell carcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Synonyms    | TPC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

TPC-1

|                   |                                |
|-------------------|--------------------------------|
| Age               | Adult                          |
| Gender            | Male                           |
| Morphology        | Epithelial                     |
| Growth properties | Highly invasive and metastatic |

TPC-1

|                     |                                    |
|---------------------|------------------------------------|
| Citation            | TPC-1 (ATCC CCL-221) Cytion 305054 |
| Biosafety level     | 1                                  |
| NCBI_TaxID          | 9606                               |
| CellSaurusAccession | CVCL_6298                          |

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Product sheet

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**Culture Medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements** 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium

**Dissociation Reagent** Trypsin

**Subculturing** Cells are grown in 25 cm<sup>2</sup> flasks in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium. Cells are grown in T25, 3-5 µg/ml PBS, 3-5 µg/ml PBS, 3-5 µg/ml PBS.

**Fluid renewal** 2-3 times per week

**Freeze medium** RPMI 1640 medium, 10% FBS, 10% DMSO (Cytion 820700a) + 10% DMSO (Cytion 820700a) + 10% DMSO (Cytion 820700a).

**Thawing and Culturing Cells**

1. Cells are thawed in a water bath at 37°C and then transferred to a 25 cm<sup>2</sup> flask.
2. Cells are grown in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium.
3. Cells are grown in T25, 3-5 µg/ml PBS, 3-5 µg/ml PBS, 3-5 µg/ml PBS.
4. Cells are grown in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium.
5. Cells are grown in T25, 3-5 µg/ml PBS, 3-5 µg/ml PBS, 3-5 µg/ml PBS.
6. Cells are grown in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium.
7. Cells are grown in T25, 3-5 µg/ml PBS, 3-5 µg/ml PBS, 3-5 µg/ml PBS.
8. Cells are grown in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium.

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

**Flask Coating** Cells are grown in 25 cm<sup>2</sup> flasks in RPMI 1640 medium supplemented with 10% FBS, 4.5 µg/ml insulin, 4.5 µg/ml transferrin, 4.5 µg/ml selenium.

[illegible]

-78°C

[illegible][illegible]