

786-O | 300107

786-O

Description

786-O is a cell line derived from a patient with renal cell carcinoma (RCC). It is a highly metastatic cell line that grows in vitro as epithelial cells. The cell line is characterized by its ability to form colonies in soft agar and its high tumorigenicity in nude mice. 786-O cells are highly sensitive to hypoxanthine and thymine, and are resistant to G418. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor-1 (IGF-1). 786-O cells are highly metastatic and are used as a model for studying the biology of RCC. The cell line is highly sensitive to hypoxanthine and thymine, and is resistant to G418. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor-1 (IGF-1). 786-O cells are highly metastatic and are used as a model for studying the biology of RCC.

Organism Human

Tissue Kidney

Disease Renal cell carcinoma

Metastatic site Primary tumor site (kidney)

Applications Cell culture, drug screening, metastasis studies

Synonyms 786-o, 786O, 786-0, 786.O, 786-O RCC, RCC 786-O, RCC_786O, RCC 786O, 786O, 786-0WT

786-O

Age 58 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial cells

Cell type Epithelial cells

Growth properties High metastatic, highly tumorigenic

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Seeding density 1 x 10⁴ cells per well

Fluid renewal 2 x 3 times per week

Post-Thaw Recovery 48 hours

Freeze medium DMEM + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw vials quickly in a 37°C water bath.
 2. Centrifuge at 300 x g for 3 minutes.
 3. Resuspend cells in 15 µl of DMEM + 10% FBS.
 4. Seed cells into a 96-well plate at 10⁴ cells per well.
 5. Incubate at 37°C with 5% CO₂ for 48 hours.
 6. Refresh medium at 300 x g for 3 minutes.
 7. Harvest cells at 10⁴ cells per well.
 8. Store cells at -80°C.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating Not required

Freezing Procedure -80°C

Shipping Conditions -80°C

