

MFC | 300652

General information

Description	Mouse Forestomach Carcinoma (MFC) is a highly tumorigenic, well-differentiated, adenocarcinoma. It is derived from the forestomach of a 6-week-old male mouse. MFC is characterized by a high degree of malignancy, with a high rate of metastasis to the lungs, liver, and other organs. The tumor is composed of glandular structures and is highly cellular. It is a valuable model for studying the biology of gastric cancer and for testing new therapies.
Organism	Mouse
Tissue	Forestomach
Disease	Adenocarcinoma
Applications	Cell culture, in vivo studies
Synonyms	Mouse Forestomach Carcinoma (MFC)

Characteristics

Growth properties	Adherent
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Identification and classification

Citation	MFC (Cytion 300652)
NCBI_TaxID	10090
CellosaurusAccession	CVCL_5J48

Genetic background and cell line

Media

Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin

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Subculturing

HEK293T cells are grown in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in PBS. Cells are then seeded into new flasks at a density of 1-5 x 10⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS until they reach confluence.

Freeze medium

Freeze medium is prepared by adding 10% DMSO to DMEM supplemented with 10% FBS. Cells are then seeded into new flasks at a density of 1-5 x 10⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS until they reach confluence.

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Add cells to a flask containing 10 ml of DMEM supplemented with 10% FBS. Gently mix the cells and incubate for 24 hours.
2. After 24 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 48 hours.
3. After 48 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 72 hours.
4. After 72 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 96 hours.
5. After 96 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 120 hours.
6. After 120 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 144 hours.
7. After 144 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 168 hours.
8. After 168 hours, replace the medium with fresh DMEM supplemented with 10% FBS. Incubate cells for 192 hours.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Not required

Freezing Procedure

Cells are seeded into a flask at a density of 1-5 x 10⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS until they reach confluence. Cells are then trypsinized and resuspended in freeze medium. Cells are then seeded into new flasks at a density of 1-5 x 10⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS until they reach confluence.

Shipping Conditions

Cells are shipped in DMEM supplemented with 10% FBS. Cells are shipped at 4°C. Cells are shipped in a container that maintains a constant temperature of 4°C.

Storage Conditions

Cells are stored in DMEM supplemented with 10% FBS. Cells are stored at -150°C. Cells are stored in a container that maintains a constant temperature of -150°C.

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Sterility

Das Produkt ist sterilisierbar und kann für PCR-Analysen verwendet werden.

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