

Product sheet

HT-29 MTX E12 | 305801

HT-29 MTX E12

Description
HT-29-MTX-E12 is a cell line derived from HT29, a human colorectal adenocarcinoma cell line. It is characterized by the expression of MUC2, MUC1, and MUC6. HT-29-MTX-E12 is a derivative of HT29 cells that has been selected for its ability to grow in the presence of MTX-E12. HT-29-MTX-E12 cells are used for the study of colorectal cancer and the role of MUC2 in this disease.

Organism Human

Tissue Colon

Disease Colorectal adenocarcinoma

Synonyms HT29-MTX-E12, MTX-E12

HT-29 MTX E12

Age 44 years

Gender Male

Ethnicity Caucasian

Cell type Epithelial

Growth properties Adherent

HT-29 MTX E12

Citation HT-29-MTX-E12 (HT-29-MTX-E12 Cytion 305801)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_G356

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Mutational profile APC, p.Glu853Ter (c.2557G>T), APC, p.Thr1556Asnfs*3 (c.4600G>A), p.Val600Glu (c.1799T>A), PIK3CA, p.Pro449Thr (c.1345C>A), TP53, p.Arg273His (c.818G>A).

HT-29

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Cytion 820100a)

Supplements 10% FBS 1% NEAA

Dissociation Reagent

Freeze medium 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Centrifuge at 300 x g for 3 minutes.
 3. Wash cells in PBS.
 4. Resuspend cells in 70% serum free medium.
 5. Seed cells into 15 cm² flasks.
 6. Incubate at 37°C, 5% CO₂.
 7. Harvest cells at 10⁷ cells.
 8. Store cells in liquid nitrogen.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating

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Freezing Procedure

HT-29 MTX E12 is a cell line that is sensitive to freezing. It is recommended to freeze the cells in a controlled manner. The cells should be seeded into a 25 cm² flask and grown to 80-90% confluency. The medium should be removed and the cells washed with PBS. The cells should then be trypsinized and resuspended in a freezing medium containing 10% FBS and 10% DMSO. The cells should be aliquoted into 1 mL vials and frozen in a controlled manner. The cells should be stored at -80°C.

Shipping Conditions

HT-29 MTX E12 is a cell line that is sensitive to shipping. It is recommended to ship the cells in a controlled manner. The cells should be seeded into a 25 cm² flask and grown to 80-90% confluency. The medium should be removed and the cells washed with PBS. The cells should then be trypsinized and resuspended in a shipping medium containing 10% FBS and 10% DMSO. The cells should be aliquoted into 1 mL vials and shipped in a controlled manner. The cells should be stored at -80°C.

Storage Conditions

HT-29 MTX E12 is a cell line that is sensitive to storage. It is recommended to store the cells in a controlled manner. The cells should be seeded into a 25 cm² flask and grown to 80-90% confluency. The medium should be removed and the cells washed with PBS. The cells should then be trypsinized and resuspended in a storage medium containing 10% FBS and 10% DMSO. The cells should be aliquoted into 1 mL vials and stored in a controlled manner. The cells should be stored at -150 to 196 °C.

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Sterility

HT-29 MTX E12 is a cell line that is sensitive to sterility. It is recommended to use sterile techniques when handling the cells. The cells should be seeded into a 25 cm² flask and grown to 80-90% confluency. The medium should be removed and the cells washed with PBS. The cells should then be trypsinized and resuspended in a sterile medium. The cells should be aliquoted into 1 mL vials and stored in a controlled manner. The cells should be stored at -150 to 196 °C.