

Mouse Tumor-Associated Smooth Muscle Cells (Human Prostate Cancer Origin, MTPSMC.H)

Catalog No. MC-6041h

Suggested Medium

M2268 Complete Smooth Muscle Cell Medium w/ Kit – 500 ml

Product Description

Mouse Tumor-Associated Smooth Muscle Cells (Human Prostate Cancer Origin, MTPSMC.H) from Cell Biologics were isolated from human xenograft of pathogen-free laboratory nude mice. Human prostate adenocarcinoma cells (PC-3) were subcutaneously injected into the nude mice, and after 4-6 weeks tumor tissues are removed for cell culture. Cells were cultured in a T25 tissue culture flasks pre-coated with gelatin-based coating solution for 2 min and incubated in Cell Biologics' Culture Complete Growth Medium generally for 14-35 days. Cells at passage 3 are cryo-preserved and each vial contains 0.5x10⁶ cells per ml.

The cells are characterized by immunofluorescence staining with antibodies of α -smooth muscle actin (A2547, Sigma). These cells are negative for bacteria, yeast, fungi, and mycoplasma and can be expanded for 2-3 passages at a split ratio of 1:2 under the cell culture conditions specified by Cell Biologics. Repeated freezing and thawing of cells are not recommended.

Laboratory Applications

The cells can be used in assays of cell-cell adhesion, migration, vascular tube formation, or transendothelial resistance (TER). Standard biochemical procedures performed with endothelial cell cultures include RT-PCR, Western blotting, immunoprecipitation, immunofluorescent staining, immunofluorescence flow cytometry or generating cell derivatives for desired research applications.

Storage

Cryopreserved cells are shipped with dry ice overnight. Upon arrival, transfer frozen cells to liquid nitrogen (-180°C) immediately until ready for use. Live cell shipment is also available on request. Primary cells can never be kept at -20 °C or -80 °C freezer.

Authorized Uses of Cell Biologics' Products

The cells from Cell Biologics are distributed for research purposes only. Our products are not authorized for human use, for in vitro diagnostic or therapeutic procedures. Transfer or resale of any Cell Biologics' cells or products from the purchaser to other markets, organizations or individuals is prohibited by Cell Biologics without the company's written consent. Cell Biologics' Terms and Conditions must be accepted before submitting an order.

Disclaimer

Investigators should handle the cells with caution and treat all animal cells as potential pathogens, since no test procedure can completely guarantee the absence of infectious agents.

Warranty and Liability

Cell Biologics' guarantee applies only to your purchase of Cell Biologics' Cells with Cell Biologics' Media and Coating Solution for appropriate cell culture and cell testing following Cell Biologics' online protocols within 35 days from the date of product delivery.