

NCI-H716 | 305079

General information

Description	NCI-H716 is a cell line derived from a 33-year-old male patient with a primary tumor of the prostate. The cell line is characterized by its high growth rate and its ability to form colonies in soft agar. It is a highly tumorigenic cell line that is used for the study of prostate cancer. The cell line is derived from a primary tumor of the prostate and is characterized by its high growth rate and its ability to form colonies in soft agar. It is a highly tumorigenic cell line that is used for the study of prostate cancer.
Organism	Human
Tissue	Prostate
Disease	Prostate cancer
Metastatic site	Prostate
Synonyms	NCI H716, NCI-H716, H-716, NCIH716

Cellular characteristics

Age	33 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	High growth rate, high tumorigenicity, high metastatic potential

Cellular characteristics

Citation	NCI-H716 (NCI-H716 Cytion 305079)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1581

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NCI-H716

Culture Medium	RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO ₃ (Cytion 820700a)
Supplements	10% FBS
Doubling time	50 h
Subculturing	5% β -mercaptoethanol
Split ratio	1:2 to 1:5
Seeding density	$> 3 \times 10^5$ cells/cm ²
Fluid renewal	1 x 10 ⁶ cells/cm ² , 1 x 10 ⁶ cells/cm ² , 1 x 10 ⁶ cells/cm ²
Freeze medium	10% FBS + 10% DMSO
Thawing and Culturing Cells	1. Thaw cells in a water bath at 37°C. 2. Centrifuge cells at 300 x g for 3 min. 3. Resuspend cells in 10% FBS + 10% DMSO. 4. Seed cells into a 96-well plate at 150,000 cells/well. 5. Incubate cells for 24-48 hours. 6. Add 10% FBS + 10% DMSO. 7. Incubate cells for 24-48 hours. 8. Harvest cells for analysis.

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Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating none

Freezing Procedure Cells are seeded into 25 cm² flasks and grown to confluence. Cells are then trypsinized and resuspended in freezing medium (DMEM, 10% FBS, 10% DMSO). The suspension is then aliquoted into 1 mL vials and frozen at -78°C.

Shipping Conditions Cells are shipped in freezing medium at -78°C.

Storage Conditions Cells are stored in freezing medium at -150 °C for up to 196 days. Thaw cells quickly in a 37°C water bath and dilute into fresh medium.

NCI-H716 Cell Line Characteristics

Sterility

NCI-H716 cells are tested for mycoplasma contamination using PCR. Cells are found to be free of mycoplasma contamination. Cells are also tested for endotoxin contamination and found to be free of endotoxin.