

# Product sheet

**NCI-H716 | 305079**

## General Information

**Description** NCI-H716 is a cell line derived from a 33-year-old male patient with metastatic melanoma. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to various chemotherapeutic agents. It is a highly tumorigenic cell line that has been extensively used in preclinical studies to evaluate the efficacy of novel anticancer drugs. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to various chemotherapeutic agents. It is a highly tumorigenic cell line that has been extensively used in preclinical studies to evaluate the efficacy of novel anticancer drugs. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.

**Organism** Human

**Tissue** Melanoma

**Disease** Metastatic melanoma

**Metastatic site** Metastatic

**Synonyms** NCI H716, NCI-H716, H-716, NCIH716

## Characteristics

**Age** 33 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent, growing in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.

## References

**Citation** NCI-H716 (ATCC CCL-1581) | Cytion 305079

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1581

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NCI-H716 - NCI-H716

NCI-H716

**Culture Medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements** 10% FBS

**Doubling time** 50 hours

**Subculturing** 1:2 to 1:5

**Split ratio** 1:2 to 1:5

**Seeding density**  $> 3 \times 10^5$  cells/cm<sup>2</sup>

**Fluid renewal** 1:1

**Freeze medium** RPMI 1640 + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
  2. Centrifuge cells at 300 x g for 3 minutes.
  3. Resuspend cells in 15 mL of culture medium.
  4. Seed cells into a T25 flask at a density of 70%.
  5. Incubate cells in a humidified CO<sub>2</sub> incubator at 37°C.
  6. Monitor cell growth and confluency.
  7. Perform subcultures when cells reach 70-80% confluency.
  8. Harvest cells for analysis or storage.

