

Product sheet

NCI-H1781 | 305731

General Information

Description NCI-H1781 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is characterized by the presence of several genetic alterations, including mutations in PI3K/AKT, MAPK, ERBB2, and HER2.

Organism Human

Tissue Lung

Disease Non-small cell lung carcinoma

Metastatic site Lung

Synonyms H1781, H-1781, NCIH1781

Cell Culture

Age 66 years

Gender Male

Ethnicity Caucasian

Growth properties Adherent

References

Citation NCI-H1781 (ATCC CCL-1494) Cytion 305731

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1494

Additional Information

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Mutational profile PTEN, p.Gln245fs*6 (c.735_739delGCCGT), TP53, p.Val157Phe (c.469G>T),

Culture Medium RPMI 1640, w: 2.0 mM, w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent

Fluid renewal 2 x 3

Freeze medium (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer cells to a pre-warmed medium.
2. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in fresh medium.
3. Seed cells into a T25 flask with 37 mL of medium.
4. Allow cells to attach for 24 hours. Remove non-adherent cells by changing medium to 70% fresh medium.
5. Seed cells into a 15 cm² flask with 8 mL of medium.
6. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in fresh medium.
7. Seed cells into a 10 cm² flask with 10 mL of medium.
8. Seed cells into a 25 cm² flask with 25 mL of medium.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating

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Freezing Procedure -78°C

Shipping Conditions -78°C

Storage Conditions -150 to -196

HLA

Sterility