

Product sheet

NCI-H1975 | 305067

NCI-H1975

**Description** NCI-H1975 is a human non-small cell lung carcinoma (NSCLC) cell line. It is characterized by the presence of a T790M mutation in the EGFR gene, which is a common resistance mechanism to EGFR tyrosine kinase inhibitors. The cell line is also known for its sensitivity to RAS/RAF/MEK/ERK pathway inhibitors. NCI-H1975 is a highly proliferative cell line that grows in the presence of serum.

**Organism** Human

**Tissue** Lung

**Disease** Non-small cell lung carcinoma

**Synonyms** NCI-H1975, H-1975, NCIH1975

Characteristics

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent

References

**Citation** NCI-H1975 (ATCC CCL-151) | Cytion 305067

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1511

Additional information

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

**Supplements** 10% FBS

**Dissociation Reagent** Trypsin

**Subculturing** Cells are harvested by trypsinization and centrifugation. Cells are resuspended in PBS and seeded into T25, 3-5 flasks in 10% FBS. Cells are passaged every 3-4 days.

**Fluid renewal** 2-3 times per week

**Freeze medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a) + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
  2. Centrifuge cells at 300 x g for 3 minutes.
  3. Resuspend cells in 10% FBS RPMI 1640 medium.
  4. Seed cells into T25 flasks at 70% confluency.
  5. Incubate cells at 37°C in 5% CO<sub>2</sub>.
  6. Pass cells every 3-4 days.
  7. Harvest cells by trypsinization and centrifugation.
  8. Resuspend cells in 10% FBS RPMI 1640 medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>

**Flask Coating** None

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Freezing Procedure

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Shipping Conditions

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Storage Conditions

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Sterility

... PCR ...  
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