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NCI-H1975 细胞系对 EGFR 抑制剂敏感，因此 EGFR 抑制剂 (NSCLC) 是治疗 NSCLC 的首选药物。EGFR 抑制剂 T790M 突变体对 EGFR 抑制剂不敏感，因此 EGFR 抑制剂对 EGFR 野生型 NSCLC 无效。RAS/RAF/MEK/ERK 信号通路在 NSCLC 中起着重要作用。

Chemical Name: NCI-H1975



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NCI-H1975, H-1975, NCIH1975

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NCI-H1975 (Cytion 305067)

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CVCL 1511

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NCI-H1975 | 305067

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Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	
Subculturing	Cells are grown in 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks at a split ratio of 1:2 to 1:4. The medium is renewed every 2-3 days.
Split ratio	1:2 to 1:4
Fluid renewal	2-3 times per week
Freeze medium	Cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 10% DMSO. The freezing medium is stored at -150°C.
Thawing and Culturing Cells	- Cells are thawed in a water bath at 37°C. - Cells are centrifuged at 300 x g for 3 minutes. - Cells are resuspended in RPMI 1640 medium supplemented with 10% FBS. - Cells are seeded into new flasks at a split ratio of 1:2 to 1:4. - Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. - Cells are trypsinized and seeded into new flasks at a split ratio of 1:2 to 1:4. - Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. - Cells are trypsinized and seeded into new flasks at a split ratio of 1:2 to 1:4.
Incubation Atmosphere	37°C, 5% CO_2

NCI-H1975 | 305067

Flask Coating

Flask Coating

Freezing
Procedure

Freezing Procedure: The cells are seeded into a 25 cm² flask and grown to confluence. The medium is removed, and the cells are washed with PBS. The cells are then trypsinized and resuspended in 10 ml of freezing medium. The cells are then frozen in a controlled rate freezer and stored at -80°C.

Shipping
Conditions

Shipping Conditions: The cells are shipped in a dry ice container and stored at -80°C.

Storage
Conditions

Storage Conditions: The cells are stored in a controlled rate freezer at -150 to -196 °C for up to 12 months.

NCI-H1975 cells are maintained in DMEM medium.

Sterility

Sterility: The cells are maintained in DMEM medium. The medium is changed every 3-4 days. The cells are tested for mycoplasma contamination using PCR. The cells are also tested for sterility using a sterility test kit.