

Product sheet

NCI-H820 | 305841

General information

Description NCI-H820 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by a mutation in the EGFR gene (E746-A750del) and a deletion in chromosome 19 (T790M). The cell line is highly sensitive to EGFR inhibitors and is used for research in lung cancer treatment.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Metastatic site Lung

Synonyms H820, H-820, NCIH820

Cell characteristics

Age 53 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Epithelial

Growth properties Adherent

References and safety

Citation NCI-H820 (ATCC CCL-221) | 305841

Biosafety level 1

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂ until they reach 70% confluency.
5. Pass the cells into a T75 flask containing 15 ml of pre-warmed medium every 8 days.
6. Harvest the cells into a 300 x 3 mm dish containing 3 ml of pre-warmed medium.
7. Harvest the cells into a 10 ml tube containing 10 ml of pre-warmed medium.
8. Store the cells at -150°C in liquid nitrogen.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

Not required

Shipping Conditions

Shipped at -78°C

Storage Conditions

Store at -150°C to -196°C

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Sterility

NCI-H820 is free of mycoplasmas and endotoxins. (PCR) tested. Sterility tested.