

Product sheet

NCI-H820 | 305841

NCI-H820

Description NCI-H820 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by a deletion in the EGFR gene (E746-A750del), which is sensitive to EGFR inhibitors such as osimertinib. NCI-H820 cells are used for research in lung cancer treatment and drug development.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Metastatic site Lung

Synonyms H820, H-820, NCIH820

Characteristics

Age 53 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Epithelial

Growth properties Adherent

References

Citation NCI-H820 (ATCC CCL-246) Cytion 305841

Biosafety level 1

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NCBI_TaxID 9606

CellosaurusAccession CVCL_1592

XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXX

Isoenzymes AK-1, 1 ES-D, 1 G6PD, B GLO-I, 2 Me-2, 2 PGM1, 1 PGM3, 1

Tumorigenic XX, XXXXXXXXXXXXXXXXXXXX

Mutational profile XXXXXXXX: TP53, XXXXXXXX, p.Thr284Pro (c.850A>C), XXXXXXXXXXXXXXXX

Karyotype XXXXX XXXXXXXX; XXXXX XXXXXXXX = 69; XXXXX = 46 XX 74

XXXXXXXXXX

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

Supplements XXXXX XXXXXXXX 5% FBS

Dissociation Reagent XXXXXXXX

Doubling time 65

Fluid renewal 2 XX 3 XXXXXXXX XXXXXXXX

Freeze medium XXXXXXXX XXXXXXXX XXXXXXXX, XXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXX (XXXXX FBS) + 10% DMSO XXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX, XX C

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 15 µl of medium. Seed the cells into a 96-well plate (8 µl per well).
3. Incubate the cells at 37°C in 5% CO₂ for 24 hours. After 24 hours, replace the medium with fresh medium.
4. After 48 hours, replace the medium with fresh medium. After 72 hours, replace the medium with fresh medium.
5. After 96 hours, replace the medium with fresh medium. After 120 hours, replace the medium with fresh medium.
6. After 144 hours, replace the medium with fresh medium. After 168 hours, replace the medium with fresh medium.
7. After 192 hours, replace the medium with fresh medium. After 216 hours, replace the medium with fresh medium.
8. After 240 hours, replace the medium with fresh medium. After 264 hours, replace the medium with fresh medium.

Incubation Atmosphere

37°C, 5% CO₂, humidified air

Shipping Conditions

Store at -78°C. Ship on dry ice.

Storage Conditions

Store at -150°C for 196 days. Do not thaw more than once.

NCI-H820 / NCI-H820 / HLA

Sterility

NCI-H820 is tested for sterility by PCR. The results are negative.

NCI-H820 is tested for mycoplasma contamination. The results are negative.