

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, 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 (NCI Cell Line Catalog 305841)

Biosafety level 1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CVCL_1592

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

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

Tumorigenic XXXX XX XXXXXXXXXXX XXXXXXXXXXX

Mutational profile XXXXXXX: TP53X XXXXXXXp.Thr284Pro (c.850A>C)X XXXXXXX XXXXXXXXXXX

Karyotype XX XXXXX XXXXXXX XXXXXXXXXXX XXXXX XXXXXXXXXXX = 69X XXXXXXX = 46 XXX 74

XXXXXXXXXX

Culture Medium RPMI 1640X X 2.0 XXXXX XXXXXXX XXXXXXXXXXX XXXXXXX X 2.0 X/XXXXNaHCO3 (XXXX XXXXXXX820700a XX XXXXXXX)

Supplements XX XXXXX X 5X FBS

Dissociation Reagent XXXXXXX

Doubling time 65

Fluid renewal 2 XXXX 3 XXXXX XX XXXXXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXXXXXX XXXXXXX XXX XXX XXXX (XXXX XX XXXX FBS) + 10% DMSO XX XXXX XXXXXXX XXX XXXXXXX XXXXXXX XXX XXXXXXX XXXXXXX

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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 tube.
2. Add 10 mL of pre-warmed medium to the tube. Centrifuge at 300 x g for 3 minutes.
3. Resuspend the cells in 10 mL of pre-warmed medium. Seed into a T75 flask.
4. Incubate at 37°C in 5% CO2. Monitor cell growth and confluency.
5. Once cells reach 70-80% confluency, passage the cells.
6. Harvest cells by trypsinization. Seed into a new T75 flask.
7. Repeat the process for subsequent passages.
8. Maintain cells in a T75 flask until ready for use.

Incubation Atmosphere

37°C, 5% CO2

Shipping Conditions

Shipped at -150°C to -196°C

Storage Conditions

Store at -150°C to -196°C

Genotype / HLA

Sterility

Cells are tested for sterility (PCR) and are free of mycoplasmas.