

Product sheet

NCI-H1793 | 305911

General Information

Description	NCI-H1793 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by a KRAS (G12C) mutation, which is a common driver mutation in NSCLC. The cell line is established from a primary tumor and is used for research in lung cancer biology and drug discovery.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer (NSCLC)
Synonyms	H1793, H-1793, NCIH1793

Cell Line Characteristics

Age	52 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Identification and Safety

Citation	NCI-H1793 (Cell Line) Cytion 305911
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1496

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Cell Line

Mutational profile p.Arg209Ter, p.Arg273His

Cell Line

Culture Medium HITES

DMEM, 10% FBS, 100 U/ml Penicillin, 100 U/ml Streptomycin, 100 U/ml Nystatin

- 0.005 mg/ml Hydrocortisone
- 0.01 mg/ml Dexamethasone
- 30 mg/ml Insulin (Human)
- 10 mg/ml Transferrin (Human)
- 10 mg/ml Selenium (Human)
- 2 mM L-Tyrosine (pH 4.5 mM)
- 5% FBS (Fetal Bovine Serum)

Dissociation Reagent Trypsin

Freeze medium DMEM, 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath, then transfer to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes, remove supernatant, wash cells with PBS, and resuspend in fresh medium.
3. Seed cells into a pre-warmed medium in a 37°C incubator.
4. Allow cells to attach to the well bottom for 24 hours.
5. Change medium after 24 hours to fresh medium.
6. After 48 hours, change medium to fresh medium.
7. After 72 hours, change medium to fresh medium.
8. After 96 hours, change medium to fresh medium.

