

Product sheet

NCI-H2087 | 305824

General Information

<b>Description</b>	NCI-H2087 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is characterized by its ability to grow in vitro and its sensitivity to various chemotherapeutic agents. NCI-H2087 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is characterized by its ability to grow in vitro and its sensitivity to various chemotherapeutic agents.
<b>Organism</b>	Human
<b>Tissue</b>	Lung
<b>Disease</b>	Non-small cell lung carcinoma
<b>Synonyms</b>	H2087, H-2087, NCIH2087

Cell Line Characteristics

<b>Age</b>	69 years
<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Morphology</b>	Epithelial cells, adherent
<b>Growth properties</b>	Exponential growth

Identification and Accession

<b>Citation</b>	NCI-H2087 (Cell Line) Cytion 305824
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_1524

Additional Information

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**Mutational profile** ATM, p.Glu848Gln (c.2542G>C), BRAF, p.Leu597Val (c.1789C>G), MYC, p.Gln61Lys (c.181C>A), TP53, p.Val157Phe (c.469G>T)

**Cell Line**

**Culture Medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO3 (Cytion 820700a)

**Supplements** 51  $\mu$ M

**Dissociation Reagent** Trypsin

**Seeding density**  $4 \times 10^4$  cells/cm<sup>2</sup>

**Freeze medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO3 + 10% DMSO

**Thawing and Culturing Cells**

1. Thaw cells rapidly at room temperature, transfer to a pre-warmed medium.
2. Centrifuge at 300 x g for 5 minutes, wash cells with PBS, resuspend in fresh medium.
3. Seed cells into a pre-warmed medium.
4. Incubate cells in a humidified incubator at 37°C with 5% CO<sub>2</sub>.
5. Monitor cell growth and morphology.
6. Harvest cells when they reach 70-80% confluency.
7. Perform a passage or cryopreservation.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>

**Flask Coating** None

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**Freezing Procedure**

Freeze the cells in a freezing medium (e.g. 10% FBS, 40% RPMI, 50% FCS) in a 15 ml centrifuge tube. Spin down the cells at 300 x g for 5 min. Resuspend the cells in 1 ml of freezing medium. Aliquot into 1 ml vials and store at -80°C.

**Shipping Conditions**

Store at -80°C. Ship on dry ice.

**Storage Conditions**

Store at -150 to -196°C in liquid nitrogen.

NCI-H2087 / HLA