

Product sheet

NCI-H2347 | 305139

General Information

Description	NCI-H2347 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by the presence of the EGFR L858R mutation and the MET amplification. The cell line is sensitive to the EGFR inhibitor ONYX-015, and the MET inhibitor MET-IN-2. The cell line is also sensitive to the EGFR inhibitor EGFR-IN-1.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Synonyms	NCI-H2347, H-2347, NCIH2347

Cell Line Characteristics

Age	54 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell Line Identification

Citation	NCI-H2347 (ATCC CCL-1550) Cytion 305139
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1550

Cell Line Availability

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

Supplements 10% FBS

Dissociation Reagent

Subculturing Cells are harvested by trypsinization with Trypsin-EDTA (Cytion 820700a) in PBS. Cells are resuspended in 3 ml of complete medium and seeded into a 25 cm² flask.

Split ratio 1:2 to 1:6

Fluid renewal 2 to 3 times per week

Freeze medium Complete medium (10% FBS) + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Dilute cells into complete medium and seed into a 25 cm² flask.
 3. Incubate cells in a humidified 5% CO₂ incubator at 37°C.
 4. Monitor cell growth and confluency.
 5. Harvest cells when 70-80% confluent.
 6. Wash cells with PBS.
 7. Detach cells using Trypsin-EDTA.
 8. Resuspend cells in complete medium and seed into a new flask.

Incubation Atmosphere 37°C, 5% CO₂

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Flask Coating	
Freezing Procedure	-78°C
Shipping Conditions	-78°C
Storage Conditions	-150 to 196

HLA

Sterility	
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- STR
- Amelogenin: x,x
- CSF1PO: 11
- D13S317: 12,14
- D16S539: 11
- D5S818: 11
- D7S820: 10,11
- TH01: 9
- TPOX: 8
- vWA: 16,19
- D3S1358: 16
- D21S11: 31,31.2
- D18S51: 12,19
- Penta E: 8,19
- Penta D: 12
- D8S1179: 10,13
- FGA: 20,25
- D1S1656: 16,17.3
- D6S1043: 14
- D2S1338: 17,19
- D12S391: 19,2
- D19S433: 13,15