

Product sheet

NCI-H3122 | 300484

General Information

<b>Description</b>	NCI-H3122 is a cell line derived from a patient with Non-Small Cell Lung Cancer (NSCLC) with EML4-ALK rearrangement. It is a highly proliferative cell line that is sensitive to ALK inhibitors. NCI-H3122 cells are derived from a patient with NSCLC and are characterized by the presence of the EML4-ALK rearrangement. This cell line is highly sensitive to ALK inhibitors and is used as a model for studying the mechanism of action of these drugs. NCI-H3122 cells are also used for the development of new ALK inhibitors and for the study of drug resistance in ALK-positive NSCLC.
<b>Organism</b>	Human
<b>Tissue</b>	Lung
<b>Disease</b>	Non-Small Cell Lung Cancer
<b>Synonyms</b>	NFCI-H3122, H-3122, NCIH3122

Characteristics

<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Growth properties</b>	Epithelial

Identification

<b>Citation</b>	NCI-H3122 (ATCC CCL-222)   300484
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_5160

Additional Information

References

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**Culture Medium** RPMI 1640 (2.0 mM L-glutamine) (2.0 mM/100x NaHCO<sub>3</sub> (820700a))

**Supplements** 10% FBS

**Dissociation Reagent**

**Subculturing**

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

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
  2. Centrifuge cells at 300 x g for 3 minutes.
  3. Wash cells with PBS.
  4. Resuspend cells in 70% FBS.
  5. Seed cells into a 15 cm<sup>2</sup> flask.
  6. Incubate cells for 8 days.
  7. Harvest cells.
  8. Store cells.

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

**Flask Coating**

**Freezing Procedure**

**Shipping Conditions**

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Storage Conditions

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

STR / HLA

Sterility

The product is sterile (PCR).

It is not recommended to use the product after the expiration date.

STR Amelogenin: x

- CSF1PO: 11/12
- D13S317: 10/12
- D16S539: 11/12
- D5S818: 11/12
- D7S820: 8/12
- TH01: 7,9,3
- TPOX: 10,1
- vWA: 16/16
- D3S1358: 16/16
- D21S11: 28/29
- D18S51: 13/16
- Penta E: 12/12
- Penta D: 10/13
- D8S1179: 13/15
- FGA: 18/21

HLA

- A\*: '03:01:01
- B\*: '35:01:01
- C\*: '04:01:01
- DRB1\*: '13:01:01
- DQA1\*: '01:03:01
- DQB1\*: '06:03:01
- DPB1\*: '14:01:01
- E: '01:03:02