

XXX NCI-H3122 | 300484

XXXXXX XXXXXX

Description	NCI-H3122 is a cell line derived from a patient with non-small cell lung cancer (NSCLC) harboring an EML4-ALK rearrangement (anaplastic lymphoma kinase). This cell line is characterized by its high sensitivity to ALK inhibitors and is used for studying the role of ALK in lung cancer and for testing novel ALK inhibitors. NCI-H3122 cells are highly proliferative and express high levels of ALK. They are also sensitive to treatment with ALK inhibitors, such as crizotinib, and show increased sensitivity to AKT and ERK inhibitors. NCI-H3122 cells are used for studying the role of ALK in lung cancer and for testing novel ALK inhibitors. They are also used for studying the role of ALK in other types of cancer, such as breast cancer and gastric cancer.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Synonyms	NCI-H3122, H-3122, NCIH3122

XXXXXXXXXXXX

Gender	☒☒☒
Ethnicity	☒☒☒☒☒☒☒
Growth properties	☒☒☒☒

Citation	NCI-H3122 (NCI-H3122 Cytion 300484)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5160

XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXX

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Culture Medium

RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Subculturing

Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.

Freeze medium

Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and then seeded into a 25 cm² flask containing 10 ml of RPMI 1640 medium supplemented with 10% FBS.
2. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
3. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
4. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
5. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
6. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
7. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
8. Cells are grown in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.

Incubation Atmosphere

37°C, 5% CO_2 , humidified

Flask Coating

Not required

Freezing Procedure

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Shipping
Conditions

Store at -78°C

Storage
Conditions

Store at -150 to -196 °C

Sterility

PCR ready
No mycoplasma contamination

STR

Amelogenin: x,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