

Product sheet

SCLC-22H | 300445

General information

Description	SCLC-22H is a human small cell lung carcinoma (SCLC) cell line derived from a 46-year-old male patient with a primary tumor in the lung. SCLC-22H is characterized by high expression of neuroendocrine markers (NSE, CEA), and is highly tumorigenic in vivo. SCLC-22H is a highly tumorigenic in vivo SCLC cell line. SCLC-22H is a highly tumorigenic in vivo SCLC cell line.
Organism	Human
Tissue	Lung
Disease	Small cell lung carcinoma
Metastatic site	Brain, Liver, Lung
Synonyms	SCLC22H

Characteristics

Age	46 years
Gender	Male
Ethnicity	White
Morphology	Epithelial, neuroendocrine, high proliferation
Growth properties	Highly tumorigenic

References and safety

Citation	SCLC-22H (ATCC CCL-228) Cytion 300445
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2186

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HEK293T SCLC-22H - HEK293T SCLC-22H

Tumorigenic	Yes, tumorigenic in immunodeficient mice
Reverse transcriptase	None
Karyotype	46,XX,XXYY,43

HEK293T

Culture Medium	RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO ₃ (HEK293T Supplemental Media Cytion 820700a)
Supplements	HEK293T Supplemental Media 10% FBS
Subculturing	HEK293T cells are typically passaged every 5-6 days. Cells are harvested by trypsinization and replated at a density of 5 x 10 ⁵ cells per well in a 24-well plate.
Split ratio	HEK293T cells are typically split at 1:2 or 1:6.
Seeding density	1 x 10 ⁵ cells/cm ²
Fluid renewal	1 x 2 days
Freeze medium	HEK293T cells are typically frozen in HEK293T Supplemental Media + 50% FBS + 40% FBS + 10% DMSO, Cryo-1 (HEK293T Supplemental Media Cytion 800100), or Cryo-2.

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed tube.
2. **Centrifugation:** Centrifuge at 300 x g for 3 minutes at 4°C. Remove the supernatant and resuspend in 100 µl of pre-warmed medium.
3. **Resuspension:** Resuspend the cells in 1 ml of pre-warmed medium. Seed into a 15 cm² flask with 8 ml of medium.
4. **Seeding:** Seed the cells into a 10 cm² flask with 10 ml of medium. The seeding density is approximately 1.5 x 10⁶ cells per flask.
5. **Incubation:** Incubate the cells in a humidified 5% CO₂ atmosphere at 37°C. The cells should reach 70% confluency within 7-10 days.
6. **Passaging:** Once cells reach 70-80% confluency, passage them into a new flask. Use 1-2 ml of trypsin per flask.
7. **Storage:** For long-term storage, harvest cells and store in liquid nitrogen. Thaw and reseed as described above.
8. **Quality Control:** Perform PCR genotyping to confirm cell identity and purity.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells and store in liquid nitrogen. Thaw and reseed as described above.

Shipping Conditions Dry ice, -78°C

Storage Conditions Liquid nitrogen, -150°C, 196 hours

Genotyping / HLA

Sterility Perform PCR genotyping to confirm cell identity and purity. Use clean techniques to avoid contamination.

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XXXXXX STR

CSF1PO: 10
D13S317: 12
D16S539: 12
D5S818: 11,12
D7S820: 11
TH01: 9 XXXX
TPOX: 8,9
vWA: 17,18
D3S1358: 15
D21S11: 29,31.2
D18S51: 14,15
Penta E: 12,13
Penta D: 9
D8S1179: 12,13
FGA: 22

XXXXXX HLA

A*: '01:01:01, '32:01:01
B*: '27:05:02, '51:01:01
C*: 02:02:02
DRB1*: '04:01:01, '09:01:02G
DQA1*: 03:01:01, 03:02:01
DQB1*: 03:02:01, 03:03:02
DPB1*: '02:01:02, '04:01:01
E: 01:01:01