

Product sheet

SK-NEP-1 | 300341

SK-NEP-1

Description
SK-NEP-1 is a human neuroendocrine carcinoma cell line derived from a 55-year-old male patient with a primary tumor in the lung. The cells are characterized by their neuroendocrine phenotype and are used for research in neuroendocrine tumors. SK-NEP-1 cells are highly proliferative and form neuroendocrine-like structures in culture. They express markers such as synaptophysin, chromogranin A, and CD56. SK-NEP-1 cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 10 ng/ml insulin, transferrin, and selenium (ITS).

Organism Human

Tissue Lung

Disease Neuroendocrine carcinoma

Metastatic site Lung, lymph nodes

Synonyms SKNEP-1, SKNEP1, SKNEP

Characteristics

Age 25 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

References

Citation SK-NEP-1 (ATCC CCL-221) | Cytion 300341

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0631

Product sheet

SK-NEP-1 | 300341

XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXX

Isoenzymes PGM3, 1, PGM1, 1-2, ES-D, 1, Me-2, 2, AK-1, 1, GLO-1, 2, G6PD, B, XXXXX XXXXXXXX XXXXXXXXX 0.0029

Tumorigenic XX, XXXXXXXX XXXXXXXXX

Mutational profile XXXXXXXX P53

Karyotype (P12) XXXXXXXXXXXXXXXXXXXX XX XXXXXXXXXXXXXXXXXXXX (+A1, +A2, +C, +D, +E, +F, +G) XX XXXXXXXX XXXXXXXXX XXXXX XXXXXXXXXXXXXXXXXXXX, XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXX

Culture Medium McCoys 5a, w: 3.0 g/L XXXXXXXX, w: XXXXX XXXXXXXXX, w: 2.0 mM XXXXX XXXXXXXXX, w: 2.2 g/L NaHCO3 (XXXXXX XXXXX Cytion 820200a)

Supplements XXXXX XXXXXXXX 10% FBS

Subculturing XXXXX XX XXXXXXXX⁵ XXXXX⁵ XXXXXXXX⁶ XXXXXXXXXXXXXXXXXXXX XXXXXXXXX XX XXXXXXXXX XXXXXXXXX XX 5 x 10

Fluid renewal 2 XX 3 XXXXXXXX XXXXXXXXX

Freeze medium XXXXXXXXX XXXXXXXXX XXXXXXXXX, XXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXX (XXXXXX FBS) + 10% DMSO XXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX XXXXXXXXX, XXXXXXXXXXXXXXXXXXXX, XXXXXXXXXXXXXXXXXXXX

SK-NEP-1 | 300341

Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Do not let the cells sit at room temperature for more than 5 minutes.
2. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.
3. Wash the cells by resuspending in 10 ml of pre-warmed PBS. Centrifuge at 150 x g for 5 minutes at 4°C.
4. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.
5. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.
6. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.
7. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.
8. Resuspend the cells in 10 ml of pre-warmed complete medium. Centrifuge at 150 x g for 5 minutes at 4°C.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium, 10 minutes

Freezing Procedure Resuspend cells in 100 µl of freezing medium. Freeze at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for up to 196 months.

SK-NEP-1 / SK-NEP-2 / HLA

Sterility The cells are provided in a sterile, cryoprotected medium. PCR screening is recommended.

██████ SK-NEP-1 | 300341

██████ HLA

A*: '25:01:01, '31:01:02

B*: '51:01:01, '55:01:01

C*: 03:03:01, 15:02:01

DRB1*: 14:54:01, 15:01:01G

DQA1*: '01:02:01, '01:04:01

DQB1*: '05:03:01, '06:02:01

DPB1*: '03:01:01, '04:01:01

E: '01:01:01, '01:03:01