

NCH644 | 300124

General information

Description

NCH644 is a small molecule inhibitor of the epidermal growth factor receptor (EGFR), which is a tyrosine kinase. It is used in the treatment of various types of cancer, including colorectal cancer, head and neck cancer, and lung cancer. NCH644 is a potent and selective inhibitor of EGFR, with an IC50 of approximately 10 nM. It is a reversible inhibitor, meaning that its effect is temporary and can be reversed once the drug is discontinued. NCH644 is a white to off-white powder, with a molecular weight of 444.44 g/mol. It is stable in water and organic solvents, and is not sensitive to light. NCH644 is a potent and selective inhibitor of EGFR, with an IC50 of approximately 10 nM. It is a reversible inhibitor, meaning that its effect is temporary and can be reversed once the drug is discontinued. NCH644 is a white to off-white powder, with a molecular weight of 444.44 g/mol. It is stable in water and organic solvents, and is not sensitive to light.

Organism Human

Tissue Colon

Disease Colorectal cancer

Subject information

Age 66 years

Gender Male

Ethnicity Caucasian

Growth properties Cell line

Identification

Citation NCH644 (Cytion 300124)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_x914

Antigen expression

Antigen expression CD133 positive

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Tumorigenic

Ploidy status

XXXXXX

Culture Medium

DMEM:Ham's F12 (1:1), w: 3.1 g/L , w: 2.5 mM L-, w: 15 mM HEPES, w: 0.5 mM , w: 1.2 g/L NaHCO3 820400a)

Supplements

10% FBS, 5 , 20 bFGF, 20 EGF, 5 , 100 , 5.2 Hydrocortison

Subculturing

Eppendorf 1000

Seeding density

2 x 10⁵

Fluid renewal

2 3

Post-Thaw Recovery

, 24 48

Freeze medium

-50% + 40% FBS + 10% DMSO, CM-1 (Cytion 800100),

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**Thawing and
Culturing Cells**

1. Thaw the vial immediately in a 37°C water bath. Gently mix the cells by pipetting up and down. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. Incubate the cells in a humidified 5% CO₂ incubator at 37°C. Do not disturb the cells for 24 hours.
3. After 24 hours, check the cells under a microscope. If the cells are attached and show a confluent monolayer, they are ready for passage.
4. If the cells are not attached or do not show a confluent monolayer, they may be dead or dying. Check the medium for contamination and pH.
5. Pass the cells to a new T25 flask containing 10 ml of complete DMEM medium. Use a 10 ml pipette to transfer the cells and medium.
6. Incubate the cells in a humidified 5% CO₂ incubator at 37°C. Do not disturb the cells for 24 hours.
7. After 24 hours, check the cells under a microscope. If the cells are attached and show a confluent monolayer, they are ready for passage.
8. If the cells are not attached or do not show a confluent monolayer, they may be dead or dying. Check the medium for contamination and pH.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating No

Freezing Procedure Harvest cells by trypsinization. Resuspend cells in freezing medium (DMEM + 10% FBS + 10% DMSO). Aliquot into 1 ml vials and store at -80°C.

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

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

HEK293T / HEK293T / HLA

Sterility HEK293T cells are not mycoplasma free. PCR testing is recommended. HEK293T cells are not mycoplasma free. PCR testing is recommended.