Product sheet





General information

Organism Human

Tissue Lung

Disease Lung small cell carcinoma

Metastatic site Pleural effusion

Applications 3D cell culture, Cancer research

Synonyms NCI-H196, H-196, NCIH196

Characteristics

Age 68 years

Gender Male

Ethnicity European

Growth properties

Adherent

Identifiers / Biosafety / Citation

Citation NCI-H196 (Cytion catalog number 300390)

Biosafety level

Expression / Mutation

Handling

Medium

supplements

Culture RPMI 1640, w: 2.1 mM stable Glutamine, w: 2.0 g/L NaHCO3 (Cytion article number 820700a)

Medium Supplement the medium with 10% FBS

CLS Cell Lines Service GmbH | Dr.-Eckener-Str. 8 | 69214 Eppelheim | Germany Tel.: +49(0)6221 405780 | www.cytion.com | info@cytion.com

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NCI-H196 Cells | 300390

Passaging
solution

Accutase

Subculturing

Remove the old medium from the adherent cells and wash them with PBS that lacks calcium and magnesium. For T25 flasks, use 3-5 ml of PBS, and for T75 flasks, use 5-10 ml. Then, cover the cells completely with Accutase, using 1-2 ml for T25 flasks and 2.5 ml for T75 flasks. Let the cells incubate at room temperature for 8-10 minutes to detach them. After incubation, gently mix the cells with 10 ml of medium to resuspend them, then centrifuge at 300xg for 3 minutes. Discard the supernatant, resuspend the cells in fresh medium, and transfer them into new flasks that already contain fresh medium.

Freeze medium

CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100)

Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium. Optionally, skip centrifugation but remove any remaining freezing medium after 24 hours.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

Quality control / Genetic profile / HLA

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Sterility

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.

To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.

STR profile Amelogenin: x,y

CSF1PO: 10 **D13S317**: 9 **D16S539**: 11 **D5S818**: 12 **D7S820**: 10,11 **TH01**: 6 **TPOX**: 11 **vWA**: 19 **D3S1358**: 15 **D18S51**: 17,19 **Penta E**: 8,12 **Penta D**: 10 **D8S1179**: 13,15 **FGA**: 22,23 **D6S1043**: 13 **D2S1338**: 17,20 **D12S391**: 19 **D19S433**: 14