# AC16 Cardiomyocyte Cell Line

305215

## GENERAL INFORMATION

### Description

□□□□□□□□□ AC16 □□□□□□□□□□

**GMO status details**

GMO-S1: This AC16-derived human cardiomyocyte cell line contains an SV40 T-Antigen construct introduced by transfection, supporting conditional immortalization. The construct is stably integrated into uridine-auxotrophic fibroblast-derived cells. This classification applies only within Germany and may differ elsewhere.

| | |
|---|---|
| **Biosafety level** | 1 |

## CHARACTERISTICS

| | |
|---|---|
| **Morphology** | □□□□□□□□□□ |
| **Cell type** | □□□□□□□□□□□□□□□□□□□□ |

## IDENTIFIERS

**Citation**

AC16 □□□□□□□□□□□□□□□□□□□□□□□□
(□□□□□□□□□□□□□□□□ Cytion 305215)

| | |
|---|---|
| **NCBI TaxID** | 9606 |
| **Cellosaurus** | CVCL_4U18 |

## EXPRESSION AND SUSCEPTIBILITY

**Viruses**

□□□□□□□□□□□□□□□□ SV40 large T-antigen

## HANDLING AND CULTURE

**Culture medium**

□□□□□□□□□□□□□□□□:DMEM: Ham's F12 (1:1), □□□□□□□□: 3.1 □□□□/□□□□ □□□□□□, □□□□□□□□: 2.5 □□□□□□□□□□□ L-□□□□□□□□, □□□□□□□□: 15 □□□□□□□□□□□ HEPES, □□□□□□□□: 0.5 □□□□□□□□□□□ □□□□□□□□□□□□□□□, □□□□□□□□: 1.2 □□□□/□□□□ NaHCO3 (□□□□□□□□□□□□□□□ Cytion 820400a)□□□□□□□□□□□□□□□□□□□□□□□□□□□□ FBS 12.5% □□□□□□□□ L-Glutamine 0.9 □□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ L-Glutamine 2.5 □□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□:DMEM:Ham's F12 (1:1), w: 3.1 □□□□/□□□□ □□□□□□, w: 2.5 □□□□□□□□□□□□ L-□□□□□□□□, w: 15 □□□□□□□□□□□□ HEPES, w: 0.5 □□□□□□□□□□□□ □□□□□□□□□□□□□□□, w: 1.2 □□□□/□□□□ NaHCO3 (□□□□□□□□□□□□□□□ Cytion 820400a).□□□□□□□□□□□□□□□□□□□

### Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
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.
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.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
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.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
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.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

## QUALITY CONTROL AND CRYOPRESERVATION

### Sterility

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ PCR □□□□□□□□□□□□□□□□□□□□

**Warranty**

□□□Cytion □□□□