

Product sheet

CLS-ACI-1 | 500459

General Information

Description	CLS-ACI-1 was established in 1998 from a single ACI cell line. It is a continuous cell line derived from a 7-12-month-old ACI rat. The cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml dexamethasone. The cells are characterized by their high proliferative capacity and their ability to differentiate into various cell types.
Organism	Rattus norvegicus
Tissue	Adipose tissue
Disease	Obesity, Diabetes mellitus
Synonyms	CLS-ACI-I

Characteristics

Breed/Subspecies	ACI
Age	3 months
Gender	Male
Morphology	Adipocytes, fibroblasts
Growth properties	Adipogenic, fibrogenic

Documentation

Citation	CLS-ACI-1 (ATCC CRL-1072) 500459
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_5729

Additional Information

CLS-ACI-1 | 500459

Oncogenes Mycn.

Tumorigenic

Karyotype 88.4 51-69 5 51-69 5 38-50 6.6

CLS-ACI-1

Culture Medium DMEM: DMEM:Ham's F12 (1:1) 3.1 2.5 15 (15

Supplements 10 FBS

Dissociation Reagent

Subculturing 15 PBS

Seeding density 2×10^4 6 7

Fluid renewal 3 5

Post-Thaw Recovery 4 24

Freeze medium (FBS) + 10% DMSO

CLS-ACI-1 | 500459

Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in pre-warmed medium.
3. Seed the cells into a pre-warmed flask. Incubate at 37°C in a humidified atmosphere of 5% CO₂.
4. Monitor cell growth and confluency. Once cells reach 70% confluency, they can be passaged.
5. Harvest cells by trypsinization. Seed into new flasks at a density of 15 x 10⁵ cells per flask.
6. Maintain cells in a humidified atmosphere of 5% CO₂ at 37°C.
7. Perform regular passages every 10 days to maintain cell quality.
8. Store cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂, humidified atmosphere

Flask Coating Not required

Freezing Procedure Cells are cryoprotected and stored in liquid nitrogen at -196°C.

Shipping Conditions Cells are shipped in dry ice at -78°C.

Storage Conditions Cells are stored in liquid nitrogen at -150 to -196°C.

HLA

Sterility Cells are tested for mycoplasma contamination using PCR. The results are negative.