

NIH-3T3 | 400101

NIH-3T3

Description NIH-3T3 is a clonal cell line derived from a rat fibroblast cell line. It is a highly proliferative, anchorage-dependent cell line that is widely used in cell biology and cancer research. The cells are characterized by their ability to form colonies in soft agar, a property that is often used to assess tumorigenicity. NIH-3T3 cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS) and are maintained in a 37°C incubator with 5% CO2. The cell line is known for its stability and ease of culture, making it a popular choice for various experimental applications.

Organism Rat

Tissue Fibroblast

Applications Cell culture, drug screening, cancer research

Synonyms NIH/3T3, NIH 3T3, NIH3T3, NIH3T3, 3T3, 3T3, 3T3NIH, 3T3-1, 3T3-2, 3T3-3, 3T3-4, 3T3-5, 3T3-6, 3T3-7, 3T3-8, 3T3-9, 3T3-10, 3T3-11, 3T3-12, 3T3-13, 3T3-14, 3T3-15, 3T3-16, 3T3-17, 3T3-18, 3T3-19, 3T3-20, 3T3-21, 3T3-22, 3T3-23, 3T3-24, 3T3-25, 3T3-26, 3T3-27, 3T3-28, 3T3-29, 3T3-30, 3T3-31, 3T3-32, 3T3-33, 3T3-34, 3T3-35, 3T3-36, 3T3-37, 3T3-38, 3T3-39, 3T3-40, 3T3-41, 3T3-42, 3T3-43, 3T3-44, 3T3-45, 3T3-46, 3T3-47, 3T3-48, 3T3-49, 3T3-50, 3T3-51, 3T3-52, 3T3-53, 3T3-54, 3T3-55, 3T3-56, 3T3-57, 3T3-58, 3T3-59, 3T3-60, 3T3-61, 3T3-62, 3T3-63, 3T3-64, 3T3-65, 3T3-66, 3T3-67, 3T3-68, 3T3-69, 3T3-70, 3T3-71, 3T3-72, 3T3-73, 3T3-74, 3T3-75, 3T3-76, 3T3-77, 3T3-78, 3T3-79, 3T3-80, 3T3-81, 3T3-82, 3T3-83, 3T3-84, 3T3-85, 3T3-86, 3T3-87, 3T3-88, 3T3-89, 3T3-90, 3T3-91, 3T3-92, 3T3-93, 3T3-94, 3T3-95, 3T3-96, 3T3-97, 3T3-98, 3T3-99, 3T3-100

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Breed/Subspecies Rat, Fibroblast

Age Adult

Gender Male

Morphology Fibroblast, epithelial

Cell type Fibroblast

Growth properties Anchorage dependent

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Citation NIH-3T3 (ATCC CRL-2539) | 400101

Biosafety level 1

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 mL of DMEM supplemented with 10% FBS. Seed the cells into a T75 flask.
2. Incubate the cells until they reach 70-80% confluency.
3. Wash the cells with PBS and trypsinize them. Seed them into a new T75 flask with fresh medium.
4. Repeat the process until you have a confluent monolayer.
5. Harvest the cells by trypsinization and centrifugation. Resuspend them in PBS and count them.
6. Seed the cells into a 96-well plate at a density of 10,000 cells per well.
7. Incubate the cells for 24 hours.
8. Harvest the cells and analyze them.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

None

Freezing Procedure

Resuspend cells in freezing medium and store at -80°C.

Shipping Conditions

Store at -80°C during shipping.

Storage Conditions

Store at -150°C to -196°C.

Genotype / HLA

Sterility

Cells are tested for mycoplasma contamination (PCR) and are found to be free of contamination.

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XXXXXX XXXXXXXXXXXX STRM_18-3: 17X19
M_4-2: 19.3X20.3
M_6-7: 12
M_3-2: 14X15
M_19-2: 11X12X13
M_7-1: 29
M_1-1: 10
M_8-1: 15
M_2-1: 9
M_15-3: 20 XXXXX
M_6-4: 15 XXXXX
M_11-2: 15X17
M_1-2: 13X17
M_17-2: 13X14
M_12-1: 20
M_5-5: 14X15
M_X-1: 25
M_13-1: 16 XXXXXXXX
Human D4/D8: -