

Product sheet

NIH-3T3-ras | 400100

General Information

Description	NIH-3T3 cells are a clonal cell line derived from a rat fibroblast cell line. They are immortalized by the insertion of a DNA. The cells are characterized by their ability to form colonies in soft agar. H-ras (p.Gly12Val)
Organism	Rat
Tissue	Embryonic fibroblasts
Synonyms	NIH3T3-ras, A51, EJ-NIH/3T3, EJ-NIH-3T3

Characteristics

Breed/Subspecies	NIH 3T3
Age	Adult
Gender	Male
Cell type	Fibroblast
Growth properties	Adherent

Identification

Citation	NIH-3T3-ras (p.Gly12Val) Cytion 400100
Biosafety level	1
NCBI_TaxID	10090
CellSaurusAccession	CVCL_5845
GMO Status	GMO-S1: NIH-3T3 cells with HRAS (p.Gly12Val) mutation

Regulatory Information

Tumorigenic	Yes, NMRI
Viruses	MAP: No

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Thawing and Culturing Cells

1. Thaw the vial in a 37°C water bath. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 10 mL of DMEM supplemented with 10% FBS. Seed the cells into a T25 flask.
2. Incubate the cells in a 37°C incubator with 5% CO₂ until they reach 70-80% confluency.
3. Harvest the cells by trypsinization and seed them into a new T25 flask with fresh medium.
4. Repeat the process until you have a confluent monolayer of cells.
5. For long-term storage, harvest the cells and freeze them in a 15 mL centrifuge tube with 8 mL of freezing medium.
6. Store the cells at -80°C for up to 3 months.
7. Thaw the cells in a 37°C water bath and seed them into a T25 flask with fresh medium.
8. The cells should reach 70-80% confluency within 3-5 days.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Freezing Procedure

Resuspend cells in 10 mL of freezing medium and freeze in a 15 mL centrifuge tube at -80°C.

Shipping Conditions

Store at -80°C during shipping.

Storage Conditions

Store at -80°C for up to 3 months.

Genotype / HLA

Sterility

Cells are tested for mycoplasma contamination using PCR. No contamination was detected. Cells are also tested for endotoxin levels.