

Product sheet

NIH-3T3-ras | 400100

General information

Description	NIH-3T3 cells are a clonal cell line derived from a 3T3 cell line. They are a DNA. They are a H-ras (p.Gly12Val) mutant.
Organism	Mouse
Tissue	Embryonic
Synonyms	NIH3T3-ras, A51, EJ-NIH/3T3, EJ-NIH-3T3

Characteristics

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

Documentation

Citation	NIH-3T3-ras (p.Gly12Val) Cytion 400100
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_5845
GMO Status	GMO-S1: NIH-3T3 cells are a DNA. They are a H-ras (p.Gly12Val) mutant.

Additional information

Tumorigenic	Yes, NMRI
Viruses	MAP: MAP

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Virus susceptibility	SV40
Reverse transcriptase	
Culture Medium	DMEM, w: 4.5 g/L , w: 4 mM L-, w: 3.7 g/L NaHCO3, w: 1.0 mM (Cytion 820300a)
Supplements	10% FBS
Dissociation Reagent	
Doubling time	16
Subculturing	cells are grown in 25 cm ² flasks in DMEM supplemented with 10% FBS. When cells reach confluence, they are trypsinized and seeded into new flasks at a density of 3 × 10 ⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS.
Split ratio	(50 × 10 ³) cells per flask at 3 × 10 ⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS.
Fluid renewal	
Freeze medium	DMEM supplemented with 10% FBS + 10% DMSO

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Thawing and
Culturing Cells

1. 将细胞冻存管放入37°C水浴中快速解冻，离心（1000g，5min），弃去上清液，将细胞重悬于完全培养基中。
2. 将细胞接种于25cm²培养瓶中，加入完全培养基，使细胞密度达到1-5 × 10⁵ cells/bottle。将培养瓶置于37°C、5% CO₂培养箱中培养。
3. 待细胞贴壁后，更换新鲜完全培养基，继续培养。
4. 当细胞融合率达到70%左右时，进行传代。
5. 将细胞消化液（含胰蛋白酶）加入培养瓶中，消化15-20min，8-10min后，加入含血清培养基终止反应。
6. 将细胞悬液离心（300 x g，5min），弃去上清液，将细胞重悬于完全培养基中。
7. 将细胞接种于25cm²培养瓶中，加入完全培养基，使细胞密度达到1-5 × 10⁵ cells/bottle。将培养瓶置于37°C、5% CO₂培养箱中培养。
8. 待细胞贴壁后，更换新鲜完全培养基，继续培养。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

Freezing
Procedure

将细胞悬液离心（300 x g，5min），弃去上清液，将细胞重悬于冻存液中。将细胞悬液分装于冻存管中，置于-80°C冰箱中冻存。

Shipping
Conditions

将细胞冻存管放入干冰中，置于-80°C冰箱中保存。运输过程中保持低温，避免反复冻融。

Storage
Conditions

将细胞冻存管放入干冰中，置于-80°C冰箱中保存。运输过程中保持低温，避免反复冻融。

Sterility

细胞冻存管经过严格的灭菌处理，确保无菌。PCR产物经过严格的灭菌处理，确保无菌。