

Product sheet

HaCaT-ras A5 | 300494

Key features

Description

HaCaT-ras A5 is a cell line derived from HaCaT cells, which are a human epidermal keratinocyte cell line. HaCaT-ras A5 cells are characterized by the presence of a constitutively active Ras protein, which is a key component of the JAK/STAT signaling pathway. This cell line is used for studying the role of Ras in skin cancer and for testing anti-cancer drugs. HaCaT-ras A5 cells are highly proliferative and form colonies in culture. They are also sensitive to IL-6 and SerpinB4, which are known to activate the JAK/STAT pathway. HaCaT-ras A5 cells are used in various assays, including siRNA knockdown, to study the effects of Ras activation on cell growth and differentiation.

Organism Human

Tissue Skin

Synonyms HaCaT-ras A-5, HaCaT A-5, A-5, A5

Characteristics

Age 62 years

Gender Male

Ethnicity Caucasian

Cell type Epithelial

Growth properties Adherent

References

Citation HaCaT-ras A5 (Cytion 300494)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_xK16

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GMO Status GMO-S1: HaCaT-ras A5 c-Ha-ras

Protein expression P53 (+), CEA (+),

Tumorigenic Balb/c-nu/nu.

Karyotype ()

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 1:1 EDTA (0.05%) (0.1%) PBS Ca²⁺/EDTA.

Subculturing

- 1.
2. PBS (T25, 5-10 T75,)
3. EDTA 0.05% - 1-2 T25 2.5 T75
4. 37 10
5. EDTA (0.05%, 0.025% EDTA),
6. 1-2
7. FBS
- 8.

Seeding density 1 x 10⁴ /

Fluid renewal

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed medium in a 150 cm² flask. The medium should be at 37°C. The cells should be seeded at a density of 1.5 x 10⁶ cells per flask.
3. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C. The medium should be changed every 2-3 days.
4. When the cells reach confluence, they should be passaged. The medium should be removed and the cells washed with PBS. The cells should be trypsinized and resuspended in a pre-warmed medium.
5. Seed the cells into a pre-warmed medium in a 150 cm² flask. The medium should be at 37°C. The cells should be seeded at a density of 1.5 x 10⁶ cells per flask.
6. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C. The medium should be changed every 2-3 days.
7. When the cells reach confluence, they should be passaged. The medium should be removed and the cells washed with PBS. The cells should be trypsinized and resuspended in a pre-warmed medium.
8. Seed the cells into a pre-warmed medium in a 150 cm² flask. The medium should be at 37°C. The cells should be seeded at a density of 1.5 x 10⁶ cells per flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells into a 15 ml centrifuge tube. Wash cells with PBS. Resuspend cells in 1 ml of freezing medium. Aliquot into 1 ml vials. Store at -80°C.

Shipping Conditions Cells should be shipped in a humidified atmosphere of 5% CO₂ at 37°C.

Storage Conditions Cells should be stored in a humidified atmosphere of 5% CO₂ at 37°C. The medium should be changed every 2-3 days.

Genotype / HLA

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

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██████ HLA

A*: '31:01:02
B*: '40:01:02, '51:01:01
C*: 03:04:01, 15:02:01
DRB1*: '04:01:01, '15:01:01G
DQA1*: '01:02:01, '03:03:01
DQB1*: '03:01:01, '06:02:01
DPB1*: '03:01:01G, '04:01:01G
E: 01:03:01, 01:03:02