

U2OS-CRISPR-SNAPf-SEH1 | 300664

Product information

Description U2OS-CRISPR-SNAPf-SEH1 is a cell line derived from U2OS cells expressing a CRISPR-Cas9 system targeting the SEH1 gene. The cells are stably transfected with a CRISPR-Cas9 construct and a SNAPf expression vector. The CRISPR-Cas9 system is used to generate a stable cell line with a homozygous knockout of the SEH1 gene. The resulting cell line is characterized by a stable growth rate and high transfection efficiency. The cells are suitable for various applications, including gene function studies and drug screening.

Organism Human

Tissue Cell Culture

Disease Cancer

Metastatic site Lung, Liver, Brain (Experimental)

Applications Gene function studies, Drug screening, CRISPR-Cas9 mediated gene editing

Characteristics

Age 15 days

Gender Male

Ethnicity Caucasian

Morphology Adherent, Epithelial

Cell type Epithelial (U2OS)

Growth properties High growth rate

Documentation

Citation U2OS-CRISPR-SNAPf-SEH1 (Accession number 300664)

Biosafety level 1

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NCBI_TaxID 9606

CellosaurusAccession (U2OS CRISPR U2OS CVCL_0042)

Depositor (EMBL)

GMO Status GMO-S1: (U2OS-CRISPR-SNAPf-SEH1) SNAPf-SEH1

Protein expression

SEH1, SNAPf-tag

Culture Medium

5% FBS, 3.0% ... 2.0% ... 2.2% NaHCO3

Supplements 10% FBS, 3.0% ... 2.0% ... 2.2% NaHCO3

Dissociation Reagent

Doubling time 24-36 hours

Subculturing

Split ratio 1:3

Seeding density 1-3 x 10^4 cells/cm^2

Fluid renewal 2-3 times

Freeze medium (10% FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 100 µl of pre-warmed medium.
3. Seed the cells into a 96-well plate (37 wells) at a density of 37,000 cells per well.
4. Incubate the cells for 70% confluency.
5. Seed the cells into a 96-well plate (15 wells) at a density of 15,000 cells per well.
6. Incubate the cells for 70% confluency.
7. Seed the cells into a 96-well plate (10 wells) at a density of 10,000 cells per well.
8. Incubate the cells for 70% confluency.

Incubation Atmosphere 37 °C, 5% CO₂

Flask Coating None

Freezing Procedure Harvest cells and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150 to -196 °C

U2OS-CRISPR-SNAPf-SEH1 / HLA

Sterility The cells are free of mycoplasma contamination (PCR). The cells are free of endotoxins.