Description

SU.86.86 is a cell line exhibiting epithelial-like morphology that was isolated from the pancreas of a White, 57-year-old, female patient with ductal carcinoma. This cell line was deposited by WD Holder and can be used in cancer research.

Organism: Homo sapiens, human
Tissue: Pancreas
Age: 57 years
Gender: Female
Morphology: Epithelial
Growth properties: Adherent
Disease: Ductal Carcinoma

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of Biosafety in Microbiological and Biomedical Laboratories (BMBL), U.S. Department of Health and Human Services. It is your responsibility to
understand the hazards associated with the material per your organization’s policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis
For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures
Unpacking and storage instructions:
1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Complete medium: The base medium for this cell line is ATCC-formulated RPMI-1640 Medium, Catalog No. 30-2001. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.
Handling Procedure: To insure the highest level of viability, thaw the vial and initiate
the culture as soon as possible upon receipt. If upon arrival, continued storage of the
frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not
at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the
   possibility of contamination, keep the O-ring and cap out of the water.
   Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and
decontaminate by dipping in or spraying with 70% ethanol. All of the
operations from this point on should be carried out under strict aseptic
conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete
growth medium and spin at approximately 125 x g for 5 to 7 minutes.
4. Resuspend cell pellet with the recommended complete growth medium (see
the specific batch information for the culture recommended dilution ratio).
and dispense into a 25 cm² or a 75 cm² culture flask. It is important to avoid
excessive alkalinity of the medium during recovery of the cells. It is suggested
that, prior to the addition of the vial contents, the culture vessel containing
the complete growth medium be placed into the incubator for at least 15
minutes to allow the medium to reach its normal pH (7.0 to 7.6).
5. Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air
   atmosphere is recommended if using the medium described on this product
sheet.

Subculturing procedure:

Volumes used in this protocol are for 75 cm² flask; proportionally reduce or increase
amount of dissociation medium for culture vessels of other sizes.

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin-0.53 mM EDTA solution to
   remove all traces of serum, which contains trypsin inhibitor.
3. Add 2.0 to 3.0 mL of Trypsin-EDTA solution to flask and place at 37°C to
   facilitate dispersal. Observe cells within 5 to 10 minutes under an inverted
microscope
4. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently
   pipetting.
5. To remove trypsin-EDTA solution, transfer cell suspension to a centrifuge tube
   and spin at approximately 125 x g for 5 to 10 minutes.
6. Discard supernatant and resuspend cells in fresh growth medium. Add appropriate aliquots of cell suspension to new culture vessels. Recommended seeding densities of $5 \times 10^3$ to $4 \times 10^4$ viable cells/cm$^2$.

7. Place culture vessels in incubators at 37°C. Note: subcultures can also be prepared by scraping the cells from the floor of the flask. Add fresh medium, aspirate the scraped cells to disperse them and dispense into new flasks.

**Subcultivation Ratio:** A subcultivation ratio of 1:2 to 1:3 is recommended by depositor

**Medium Renewal:** 2 to 3 times per week

**Reagents for cryopreservation:** Complete growth medium supplemented with 50% (v/v) FBS and 10% (v/v) DMSO (ATCC 4-X)

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**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: SU.86.86 (ATCC CRL-1837)

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**References**

References and other information relating to this material are available at www.atcc.org.

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SU.86.86
CRL-1837

use of this product. The MTA is available at www.atcc.org.

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