

SNU-719 | 305636

General information

Description	SNU-719 is a human gastric cancer cell line, established from a primary tumor of a patient with gastric adenocarcinoma. It is a highly proliferative, anchorage-dependent cell line that grows in the form of monolayers. SNU-719 is characterized by its high tumorigenicity in nude mice and its sensitivity to various chemotherapeutic agents. It is a valuable tool for studying gastric cancer biology and drug response.
Organism	Human
Tissue	Gastric cancer
Disease	Gastric adenocarcinoma
Synonyms	SNU719, NCI-SNU-719

Cell characteristics

Age	53 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial cells
Cell type	Adenocarcinoma
Growth properties	Highly proliferative, anchorage-dependent

Cell line identification

Citation	SNU-719 (Cytion 305636)
Biosafety level	2
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5086

Product sheet

Cell SNU-719 | 305636

Cell Line - **Characteristics**

Mutational profile CTNNB1, p.Gly34Val (c.101G>T), MET, p.Asp153Ala (c.458A>C), p.Pro104Arg (c.311C>G),

Media

Culture Medium RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent

Doubling time 43

Subculturing , 0.25% -EDTA 0.02% , 37

Split ratio 1:4

Fluid renewal 2 3

Freeze medium , (FBS) + 10% DMSO

Cell SNU-719 | 305636

**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of pre-warmed medium.
2. **Seeding:** Seed the cells into a 25 cm² flask containing 10 ml of pre-warmed medium. The seeding density is approximately 1.5 x 10⁶ cells per flask.
3. **Incubation:** Incubate the cells in a humidified incubator at 37°C with 5% CO₂. The cells will reach confluence within 3-5 days.
4. **Passaging:** When the cells reach confluence, passage them into a new flask. Use trypsin to detach the cells and resuspend them in medium.
5. **Medium:** Use DMEM supplemented with 10% FBS for primary culture. For long-term culture, use serum-free medium.
6. **Storage:** Cells can be stored in liquid nitrogen for long-term storage. Freeze the cells in a freezing medium and store at -196°C.
7. **Characterization:** Perform PCR and Western blot analysis to confirm the identity of the cells.
8. **Quality Control:** Regularly check the cell morphology and growth rate to ensure the quality of the culture.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Shipping
Conditions**

Cells are shipped in dry ice and stored at -78°C during transport.

**Storage
Conditions**

Cells can be stored in liquid nitrogen for long-term storage at -196°C.

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Sterility

Cells are tested for mycoplasma contamination using PCR and are found to be negative. The cells are also tested for endotoxin and are found to be below the detection limit.