

Cell Line SNU-601 | 305282

General Information

Description	Cell Line SNU-601 is a human gastric cancer cell line, established from a 54-year-old female patient with gastric adenocarcinoma. SNU-601 cells are epithelial in origin, highly proliferative, and sensitive to various chemotherapeutic agents. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. SNU-601 cells are characterized by their ability to form spheroids in suspension culture and their resistance to certain chemotherapeutic drugs. The cell line is widely used in cancer research, particularly in the study of gastric cancer biology and drug response.
Organism	Human
Tissue	Gastric Cancer
Disease	Gastric Cancer, Adenocarcinoma
Metastatic site	Metastatic
Synonyms	SNU601, NCI-SNU-601

Cell Line Characteristics

Age	34 years
Gender	Female
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Highly proliferative

Cell Line Identification

Citation	SNU-601 (Cell Line SNU-601 Cytion 305282)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0101

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Cell Line SNU-601-**Characteristics**

Mutational profile	KRAS, p.Gly12Asp (c.35G>A), PIK3CA, p.Glu542Lys (c.1624G>A), TP53, p.Arg175Gln
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Cell Line SNU-601-**Media**

Culture Medium	RPMI 1640, w: 2.0 mM Glucose, w: 2.0 g/L NaHCO3 (Cytion 820700a)
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Supplements	10% FBS, 25 mM HEPES
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Dissociation Reagent	Trypsin
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Subculturing	Cells are grown in 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS. Cells are seeded into new flasks at a density of 1-3 x 10 ⁵ cells per flask.
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Split ratio	1:4
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Freeze medium	Cells are frozen in RPMI 1640 medium supplemented with 10% FBS and 10% DMSO. Cells are frozen in 1.5 ml Eppendorf tubes and stored at -80°C.
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Thawing and Culturing Cells	1. Thaw cells rapidly in a 37°C water bath. 2. Centrifuge cells at 300 x g for 3 minutes. 3. Resuspend cells in RPMI 1640 medium supplemented with 10% FBS. 4. Seed cells into a 25 cm² flask at a density of 1-3 x 10⁵ cells per flask. 5. Incubate cells in a humidified 5% CO₂ incubator at 37°C. 6. Monitor cell growth and passage cells when they reach 80-90% confluency. 7. Thaw cells rapidly in a 37°C water bath. 8. Centrifuge cells at 300 x g for 3 minutes.
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Incubation Atmosphere 37°C, 5% CO₂,

Flask Coating

Freezing Procedure

Shipping Conditions                             

Storage Conditions XXXXXXXX XXXXXXXX XXXXX, XX XXXXXXX XX XXXXXXXXXXXXXXX XXXXXXX XXXXXXX XXXXX XX XXXX XXXXXXXXXXXXXXX XX 0-150 XX 196 XXXXXXX XXXXXXXXXX XXXXXXX XXXXXXX

Sterility

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