

Product sheet

Colo-680N | 300464

General Information

Description	COLO-680N is a human colorectal adenocarcinoma cell line, established in 1965 from a 58-year-old male patient with a primary tumor in the sigmoid colon. It is a highly metastatic cell line, capable of growing in primary and secondary sites. It is characterized by its ability to form large, mucin-producing glandular structures in vitro and in vivo. The cell line is sensitive to 5-fluorouracil and irinotecan.
Organism	Human
Tissue	Colorectal adenocarcinoma
Disease	Colorectal adenocarcinoma
Applications	COLO-680N is used in various applications, including cell-based assays, drug screening, and as a model for studying colorectal cancer biology. It is particularly useful for studying the role of Wnt signaling in colorectal cancer progression.
Synonyms	COLO 680N, COLO #680N, COLO680N, HCT 680N

Cell Characteristics

Age	57 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Adherent, requires growth factors

References and Safety

Citation	COLO-680N (ATCC CCL-229) Cytion 300464
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1131

Additional Information

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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 flask containing 15 mL of medium. Incubate at 37°C with 5% CO₂.
3. Once the cells have reached confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
4. Wash the cells with PBS. Resuspend in 1 mL of medium. Seed into a new flask with 15 mL of medium.
5. Incubate at 37°C with 5% CO₂ until the cells reach confluence.
6. Harvest the cells by trypsinization. Resuspend in 1 mL of medium. Seed into a new flask with 15 mL of medium.
7. Incubate at 37°C with 5% CO₂ until the cells reach confluence.
8. Harvest the cells by trypsinization. Resuspend in 1 mL of medium. Seed into a new flask with 15 mL of medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Freeze at -80°C

Shipping Conditions -80°C

Storage Conditions -150°C

Genotype / HLA

Sterility Sterilized by gamma irradiation

██████ Colo-680N | 300464

██████ HLA

A*: '02:01:01, '30:02:01

B*: 15:16:01, 57:01:01

C*: 06:02:01, 14:02:01

DRB1*: 07:01:01, 11:01:02

DQA1*: '01:01:02, '02:01:01

DQB1*: '03:03:02, '05:01:01

DPB1*: '01:01:02, '04:01:01

E: 01:01:01