

NUOC-1 Cell Line

Catalogue number: 153527

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: NUOC-1 Cell Line

Alternate name: HGSC, high grade mixed ovarian cancer, epithelial ovarian cancer

Class:

Conjugate:

Description: Epithelial ovarian cancer is diagnosed at late disease stage in more than 70% of patients. Ovarian cancer is the leading cause of gynaecological cancer mortality worldwide with a 5-year overall survival of 3039%. It has long been recognised by clinicians that ovarian cancer is a set of heterogeneous diseases. NUOC-1 cell line represents a novel ovarian cancer cell line derived from the ascites of a chemotherapy nave patient with a primary mixed endometrioid/ clear cell/ high grade serous ovarian cancer. NUOC-1 cells grow as an adherent monolayer. The cells are TP53 wildtype, positive for PTEN, HER2 and HER3 expression but negative for oestrogen, progesterone and androgen receptor expression. NUOC-1 cells are competent in homologous recombination and non-homologous end joining, but base excision repair defective. Karyotype analysis demonstrated a complex tetraploid karyotype

Purpose:

Parental cell: Ascites of chemotherapy naive patient

Organism: Human

Tissue: Ovary

Model: Cancer Model

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:**Growth properties:** Doubling time approximately 58 hours**Production details:** Ascites were collected from patients undergoing surgery for ovarian cancer. 20 ml of ascites was added to 20 ml of warmed culture medium in T75 flask, and incubated at 37°C, 5% CO₂, 95% humidified air. The medium was aspirated and 13 ml of warmed fresh medium was replaced on day 3 to 5. The medium was replaced every 4 to 5 days until the cells approached confluence**Formulation:****Recommended controls:****Bacterial resistance:****Selectable markers:****Additional notes:**

Target details

Target: Ovarian cancer**Target alternate names:****Target background:****Molecular weight:****IC₅₀:**

Applications

Application:**Application notes:** NUOC-1 cells grow as an adherent monolayer. The cells are TP53 wildtype, positive for PTEN, HER2 and HER3 expression but negative for oestrogen, progesterone and androgen receptor expression. NUOC-1 cells are competent in homologous recombination and non-homologous end joining, but base excision repair defective. Karyotype analysis demonstrated a complex tetraploid karyotype

Handling

Format: Frozen**Concentration:****Passage number:****Growth medium:** RPMI 1640 medium supplemented with 20% FCS, 20 mM L-glutamine and 1% penicillin and streptomycin**Temperature:****Atmosphere:****Volume:****Storage medium:**

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Lysakova-Devine et al. 2010. J Immunol. 185(7):4261-71. PMID: 20802145. ; Viral inhibitory peptide of TLR4, a peptide derived from vaccinia protein A46, specifically inhibits TLR4 by directly targeting MyD88 adaptor-like and TRIF-related adaptor molecule.

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