

A2780 Cell Line

Catalogue number: 152706

Sub-type:

Images:

Contributor

Inventor:

Institute: National Cancer Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: A2780 Cell Line

Alternate name: A-2780 Cells; A2780 ovarian cancer cell line

Class:

Conjugate:

Description: Access A2780 the gold standard ovarian cancer cell line. A2780 cell line was established from an ovarian endometroid adenocarcinoma tumour tissue of an untreated patient. It is widely used as a model to observe the effects of treatment delivery and toxicity. This epithelial line grows as a monolayer, in suspension in spinner cultures, and is tumourigenic in immune deficient mice. A2780 displays cisplatin-sensitivity. Our collection also features seven A2780 derivatives, including two drug resistant cell line variants: a cisplatin resistant cell line – A2780 cis (catalogue no. 152708) and the adriamycin resistant cell line - A2780 ADR (catalogue no. 152707). Published uses of this line include: (1) Investigating the role of ovarian tumour neovascularisation (Abdulkhalek et al. 2014). (2) Resistance to chemotherapeutic drugs (Pfankuchen et al. 2015). (3) Demonstrating significance of therapeutic targets in ovarian cancer.

Purpose:

Parental cell:

Organism: Human

Tissue: Ovary

Model: Tumour line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent

Production details: Split sub-confluent cultures (70-80%) 1:3 to 1:6 i.e. seeding at 3-6x10,000cells/cm² using 0.25% trypsin or trypsin/EDTA; 5% CO₂; 37°C.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: STR-PCR Data: Amelogenin: X CSF1PO: 10,11 D13S317: 12,13 D16S539: 11,13 D5S818: 11,12 D7S820: 10 THO1: 6 TPOX: 8,10 vWA: 15,16

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: A2780 cell line is used in toxicity testing and cancer genetic studies.

Application notes: Points of Interest STR-PCR Data: Amelogenin: X CSF1PO: 10,11 D13S317: 12,13 D16S539: 11,13 D5S818: 11,12 D7S820: 10 THO1: 6 TPOX: 8,10 vWA: 15,16 Concentration Vial has between 1-5 million cells as standard, however this may vary.

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: RPMI 1640 + 2mM Glutamine + 10% Foetal Bovine Serum (FBS).

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools: A2780ADR Cell Line ; A2780cis Cell Line

References

References:

CancerTools.org