

A2780cis Cell Line

Catalogue number: 152708

Sub-type: Continuous

Images:

Contributor

Inventor: Timothy Ward

Institute: National Cancer Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: A2780cis Cell Line

Alternate name:

Class:

Conjugate:

Description: A2780 cell line resistant to cisplatin. Background and Research Application The cisplatin-resistant A2780cis cell line has been developed by chronic exposure of the parent cisplatin-sensitive A2780 cell line (catalogue no. 152706) to increasing concentrations of cisplatin. This cell line was derived from a patient with ovarian endometroid adenocarcinoma. A2780cis is cross-resistant to melphalan, adriamycin and irradiation. An increased ability to repair DNA damage as well as cytogenetic abnormalities has been observed. In order to retain resistance cisplatin has to be added to the media for every passage. In addition to this matched pair of drug-sensitive/resistant cell lines an adriamycin-resistant cell line, A2780adr (catalogue no. 152707), has been isolated from the same parental line. A2780cis has been used in a variety of experiments, including studying the cytotoxic effects of platinum (II) complexes and gold (I)-triphenylphosphine complexes with hypoxanthine-derived ligands. It has also been used to study the effects of cancer-cell specific oligopeptides.

Purpose:

Parental cell: A2780

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%) 1:5 to 1:20 i.e. seeding at 1x1,000 to 1x10,000 cells/cm² using 0.25% trypsin or trypsin/EDTA; 5% CO₂; 37°C. Cells will attach slowly after resuscitation and take up to 7 days to reach confluency. Recommendation: resuscitate cells in media without cisplatin. Add after subculture of attached cells.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Points of Interest This cell line has also been used in toxicity testing and drug resistance studies. Karyotype: Modal no. 46 STR-PCR Data: Amelogenin: X CSF1PO: 10,11 D13S317: 13 D16S539: 11,13 D5S818: 11 D7S820: 10 TH01: 6 TPOX: 8,10 vWA: 15,16 Concentration Vial has between 1-5 million cells as standard, however this may vary.

Target details

Target: Cisplatin resistance

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: Points of Interest Karyotype: Modal no. 46 STR-PCR Data: Amelogenin: X CSF1PO: 10,11 D13S317: 13 D16S539: 11,13 D5S818: 11 D7S820: 10 TH01: 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 + 1muM cisplatinum + 10% Foetal Bovine Serum (FBS) .

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools: A2780 Cell Line ; A2780ADR Cell Line

References

References:

CancerTools.org