

PEO1-CDDP Cell Line

Catalogue number: 151784

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: PEO1-CDDP Cell Line

Alternate name:

Class:

Conjugate:

Description: The PEO1-CDDP Cell Line is an in-vitro model to understand the changes in EGF signalling after the onset of cisplatin resistance. Coupled with this change in drug sensitivity, this model also has a modified responsiveness to ligands of the erbB receptor family. This model will be helpful in studying the changes in cellular signalling after drug treatment, which are currently attracting a great deal of interest and this model will be of particular relevance when cytotoxic therapy is combined with signalling inhibitors.

Purpose:

Parental cell: PEO1

Organism: Human

Tissue: Ovary

Model: Cisplatin Resistance

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: The PEO1CDDP cell line was established by in vitro exposure of the PEO1 line to

cisplatin commencing at 25 nmol/L cisplatin and increasing to 1 μ mol/L over a period of 4 months. The resistant cell line thus obtained was then passaged in the absence of cisplatin for a further 4 months to ensure that the resistance remained stable. PEO1 CDDP is from the same patient as the PEO1, PEO4 and PEO6 cell lines (ECACC Catalogue numbers 10032308, 10032309 & 10032310).

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Human ovarian cancer; oestrogen receptor, drug resistance, cisplatin resistance

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: RPMI 1640 containing 10% heat-inactivated FCS, penicillin (100 units/mL), and streptomycin (100 μ g/mL). Cells were maintained routinely at 37°C in a humidified atmosphere of 5% CO₂ in air.

Temperature: 37° C

Atmosphere: 5% CO₂

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools: PEO1 Cell Line ; PEO4 Cell Line ; PEO6 Cell Line ; PEO14 Cell Line ; PEO16 Cell Line ; PEO23 Cell Line ; PEA1 Cell Line ; PEA2 Cell Line ; TO14 Cell Line

References

References: Renella et al. 2011. Blood. 117(25):6928-38. PMID: 21364188. ; Codanin-1 mutations in congenital dyserythropoietic anemia type 1 affect HP1 localization in erythroblasts.

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