

T47D/S2 Cell Line

Catalogue number: 152109

Sub-type: Continuous

Images:

Contributor

Inventor: Anne Lykkesfeldt

Institute: Danish Cancer Society

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: T47D/S2 Cell Line

Alternate name:

Class:

Conjugate:

Description: The T47D/S2 cell line is a control cell line for the tamoxifen resistant T47D/TR-1 and T47D/TR-2 cell lines. This cell line has been established by the reduction of the serum concentration in order to enable growth inhibition with tamoxifen. T47D/S2 is adherent and the morphology is polygonal epithelial. T47D/S2 cells express oestrogen receptor (alpha) and progesterone receptor. This cell line allows the study of the mechanisms involved in tamoxifen resistant breast cancer cell growth.

Purpose:

Parental cell: T47D

Organism: Human

Tissue: Breast

Model: Tumour line

Gender: Female

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: T47D/S2 cells have been established by reduction of the serum concentration to 2% fetal calf serum, in order to enable growth inhibition with tamoxifen.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Oestrogen receptor

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: Determining molecular mechanisms around tamoxifen resistance

Application notes: T47DS2 cells express ER alpha and progesterone receptor.

Handling

Format: Frozen

Concentration:

Passage number: Passage 151 (AL3707, AL3708)

Growth medium: Phenol red free RPMI 1640 + 2% FCS + glutamax + 8ug Insulin/ml

Temperature: 37° C

Atmosphere: 5% CO2

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools: T47D/TR-1 Cell Line ; T47D/TR-2 Cell Line ; T47D-182R2 Cell Line ; T47D-182R1 Cell Line

References

References: Larsen et al. 2015. PLoS One. 10(2):e0118346. PMID: 25706943. ; Larsen et al. 2015. BMC Cancer. 15:239. PMID: 25885472. ; Aurora kinase B is important for antiestrogen resistant cell growth and a potential biomarker for tamoxifen resistant breast cancer. ; SRC drives growth of antiestrogen resistant breast cancer cell lines and is a marker for reduced benefit of tamoxifen treatment. ; Thrane et al. 2014. Oncogene. :. PMID: 25362855. ; A kinase inhibitor screen identifies Mcl-1 and Aurora kinase A as novel treatment targets in antiestrogen-resistant breast cancer cells. ; Kirkegaard et al. 2014. Cancer Lett. 344(1):90-100. PMID: 24513268. ; T47D breast cancer cells switch from ER/HER to HER/c-Src signaling upon acquiring resistance to the antiestrogen fulvestrant.

CancerTools.org