

T47D-182R-1 Cell Line

Catalogue number: 151891

Sub-type: Continuous

Images:

Contributor

Inventor: Anne Lykkesfeldt

Institute: Danish Cancer Society

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: T47D-182R-1 Cell Line

Alternate name:

Class:

Conjugate:

Description: The T47D-182R-1 cell line is an adherent breast cancer cell line resistant to fulvestrant (Faslodex). It is derived from the human breast cancer cell line - T47D/S5 by long term treatment with 100 nM fulvestrant. T47D-182R-1 is adherent and the morphology is epithelial. Resistance will inevitably occur for the second-line therapy fulvestrant. Therefore, this is a highly valuable tool in extending knowledge of acquired therapeutic resistance to ultimately find targeted treatments to resistant tumour cells. As well as treatment that can inhibit or delay the emergence of resistance.

Purpose:

Parental cell: T47D

Organism: Human

Tissue: Breast

Model: Tumour line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Human breast cancer cell line derived from T47D/S5 by long term treatment with

100 nM fulvestrant. Grow with 5% fetal bovine serum and 100 nM fulvestrant. Oestrogen and progesterone receptor negative. Passage 166 (AL3372, AL3381)

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 fulvestrant resistance

Application notes: Oestrogen and progesterone receptor negative.

Handling

Format: Frozen

Concentration:

Passage number: Passage 166 (AL3372, AL3381)

Growth medium: Phenol red free RPMI 1640 + 5% FCS + glutamax + 8ug Insulin/ml + 100 nM fulvestrant. Grow with 5% fetal bovine serum and 100 nM fulvestrant.

Temperature: 37° C

Atmosphere: 5% CO2

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools: T47D/S2 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. ; 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.

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