

MCF7 AREc32 Cell Line

Catalogue number: 151014

Sub-type: Continuous

Images:

Contributor

Inventor: Roland Wolf

Institute: University of Dundee

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MCF7 AREc32 Cell Line

Alternate name:

Class:

Conjugate:

Description: Cell line used to investigate ARE gene expression. Background and Research Application The stable human mammary MCF7-derived reporter cell line called AREc32 contains copies of the rat GST antioxidant response element (ARE) linked to a luciferase gene, such that the induction of the ARE results in luciferase activity. ARE is a transcriptional cis-regulatory element involved in the activation of genes coding for a number of antioxidant proteins and enzymes that work in concert to protect tissues from oxidative insults. This cell line can be used to investigate whether anti-cancer drugs can induce ARE-driven gene expression.

Purpose:

Parental cell: MCF7

Organism: Human

Tissue: Breast

Model: Reporter

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

The ARE-luciferase reporter plasmid was generated using the pGL3-promoter vector containing an SV40 promoter upstream of the firefly luciferase gene. They differ in the number of copies of ARE sequences that have been inserted, in head-to-tail orientation, through Nhe I & Xho I restriction sites upstream of the promoter-luc+ transcriptional unit. A plasmid was made containing eight copies of the ARE (5'-GTGACAAAGCA-3', with the minimal functional sequence underlined) present in both rat GSTA2 ...

Formulation:

Recommended controls: MCF7 parental line

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Antioxidant Response Element (ARE)- Luciferase

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: DMEM with glutamax supplemented with 10% fetal bovine serum and antibiotics. Do not culture beyond 15 passages after revival.

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References:

CancerTools.org