PrimCells, LLC
9921 Carmel Mountain Rd, #193
San Diego, CA 92129
Orders: Orders@PrimCells.com
Technical Suppots: Supports@PrimCells.com

Human Mineralocorticoid Receptor (f-hMR) Stable Cells (Inducible)

Species:	*Homo Sapiens*	Catalog Number:	CLHKMR01
Cell Number:	~2x10^6	Storage/Shipping:	Dry Ice/-80°C

Introduction:

Nuclear hormone receptors (NHRs) are a superfamily of transcription factors that function as powerful metabolic regulators to control a variety of systemic processes in physiology. They also play key roles in the pathophysiology of many major disease states, such as diabetes, obesity, inflammation, atherosclerosis and heart failure. To date, this superfamily has provided a rich source of drug design targets and it is continuing to be one of the hottest areas for pharmaceutical research. PrimCells now provides a comprehensive set of NHR expressing cell lines to the research community. These high-quality, flag-tagged NHR-expressing cell lines aim to facilitate further biochemical and molecular studies of their functions and hence encourage new strategies for drug design.

f-hMR/HEK293 cell line was created by stably co-transfection of HEK293 cells with two plasmids expressing the bacterial Tet repressor (TetR) and the human mineralocorticoid receptor (hMR) proteins. Since the hMR gene is driven by a promoter containing two tetracycline operator (TeTO2) sites, the expression of hMR protein can be induced by doxycycline.

Thawing of Frozen Cells

1. Upon receipt of the frozen cells, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.

2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for ~1min. Keep the cap out of water to minimize the risk of contamination.

3. Pipette the cells into a 15ml conical tube with ~5ml fresh culture medium.

4. Centrifuge at 1000rpm (~220g) for 5min under room temp.

5. Remove the supernatant and resuspend the cells in fresh culture medium

6. Transfer the cells into new tissue culture flasks and move them to 37°C incubator (5% CO_2) for continuous culture.

Safety Precaution: *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

Standard Culture Procedure

1. Cells should be maintained in the complete culture medium until reaching ~80-90% confluence. ***Note:*** *Never let the cells to become over confluent.*

2. Add ~2.5ml of 0.05% Trypsin-EDTA to the flask and incubate for 5min at 37°C.

3. Neutralize the enzyme activity by adding 2-3 volumes of fresh complete culture medium.

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4. Centrifuge 1000rpm (~220g) for 5min and resuspend the cells in desired volume of medium.

5. Transfer the cells to a new tissue culture treated flask for subculture. ***Note****: It is recommended that cells are passaged at the ratio of 1:1*0.

Complete Growth Medium

DMEM (Corning, Cat#10014CV): 450ml

FBS: 50ml

Total Volume: 500ml

Technical Support

For additional information regarding the product and technical questions, please contact Supports@PrimCells.com. You are guaranteed to receive a response within 24hrs from one of our scientists.

Disclaimers

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