

Culture Instruction Manual - FluoHiTSeeker FSHR

Materials & Reagents Required

Dulbecco's Modified Eagle's Medium - high glucose (Ref: D6429 Sigma-Aldrich) Fetal Bovine Serum (FBS)
Puromycin
Hygromycin
DPBS (Ca²⁺ & Mg²⁺ free)
Incubator, 37 °C/5% CO₂.
Tissue culture vessels
Water Bath, 37 °C
15 mL tubes.
Centrifuge
Pipette
Ice

Complete Growth Medium

DMEM (Ref. D6429 Sigma-Aldrich) Fetal Bovine Serum (10%) Puromycin (10µg/ml) Hygromycin (100 µg/ml)

Any changes in the experimental conditions may have negative effects on cell survival and may yield abnormal cell experiment. For more information and for a complete list of Innoprot's reagents and products contact our customer service.

FluoHiTSeeker Cell Lines from Innoprot have been highly validated showing the response detailed in the technical sheet to the reference compound. FluoHiTSeeker Cell Lines have been also validated for High-Throughput Screening applications.

General Considerations: The protocols included in this manual are intended to serve as a guide only, and optimization of culture protocols is encouraged to ensure success.



1.0 IMMEDIATELY UPON DELIVERY		
1.1	Remove vial from shipping container to check that it is still frozen.	
1.2	Transfer frozen vial to liquid nitrogen until you are ready to thaw and begin	
	cell culture.	
2.0 THAWING CELLS		
2.1	Prepare necessary "Thawing medium" and warm prior to plating cells:	
	DMEM (Ref: D6429 Sigma-Aldrich)	
	• 10% FBS	
2.2	Thaw cells rapidly. Place the vial in a 37°C waterbath, hold and rotate the	
	vial gently until the contents are completely thawed. Do not allow sample to	
	warm to 37°C. Cryovials should be cool to the touch when removed from	
	bath. Passive thaw is not recommended.	
2.3	Remove the vial from the waterbath immediately, wipe it dry, and transfer it to	
	a sterile field.	
2.4	Rinse the vial with 70% ethanol, and then wipe to remove excess. Remove	
	the cap, being careful not to touch the interior threads with fingers. Using 1 ml	
	eppendorf pipette gently resuspend the contents of the vial.	
2.5	Add warm media to a 15 mL tube until the 8 ml demarcation.	
2.6	Immediately transfer contents of vial to the 15 mL tube. Gently invert the tube	
	to distribute contents.	
2.7	Centrifuge at 1.500 r.p.m. for 5 minutes. Remove supernatant and resuspend	
	cell pellet in warm medium	
2.8	Count the cells and dispense the contents of the tube into a T-75 flask.	
2.9	Place the flask to the incubator	
2.10	For best result, do not disturb the culture for 24 hours after the culture has	
	been initiated.	
	Change the growth medium (including Puromycin 10µg/ml and Hygromycin	
	100 μg/ml)) the next day to remove unattached cells, then every other day	
	thereafter.	
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3.0 MAINTENANCE OF THE CULTURE		
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3.1	Change the medium to fresh supplemented medium the next morning after	
	establishing a culture from cryopreserved cells. For subsequent subcultures,	
	change medium 48 hours after establishing the subculture.	
3.2	Once the culture reaches 50% confluence, change medium every day until	
	the culture is approximately 80% confluent.	
3.3	Subculture the cells when they are over 90% confluent.	
4.0 S	UBCULTURING	
4.1	Warm medium, trypsin/EDTA solution, trypsin neutralization solution, and	
7.1	DPBS to room temperature. We do not recommend warming the reagents	
	and medium at 37 °C waterbath prior to use.	
4.2	Rinse the cells with DPBS.	
4.3	Add 2 ml of trypsin/EDTA solution into flask (in the case of T-75 flask); gently	
	rock the flask to make sure cells are covered by trypsin/EDTA solution;	
	incubate the flask at 37°C incubator for 1 to 2 minutes or until cells are	
	completely rounded up (monitored with inverted microscope). During	
	incubation, prepare a 15 ml conical centrifuge tube with 5 ml of FBS; transfer	
	trypsin/EDTA solution from the flask to the 15 ml centrifuge tube (a few	
	percent of cells may detached); at the end of trypsinisation, with one hand hold one side of flask and the other hand gently tap the other side of the flask	
	to detach cells from attachment; check the flask under inverted microscope to	
	make sure all cells are detached, add 5 ml of trypsin neutralization solution to	
	the flask and transfer detached cells to the 15 ml centrifuge tube; add another	
	5 ml of TNS to harvest the residue cells and transfer it to the 5 ml centrifuge	
	tube. Examine the flask under inverted microscope to make sure the cell	
	harvesting is successful by looking at the number of cells left behind. There	
	should be less than 5%.	
4.4	Centrifuge the 15 ml centrifuge tube (harvested cell suspension) at 1000 rpm	
	(Beckman Coulter Allegra 6R centrifuge or similar) for 5 min; re-suspend cells	
	in growth medium.	
4.5	Count cells and plate cells in a new flask with cell density as recommended.	