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Product Sheet

Mouse_GFRAL HEK-293 Cell Line

Catalog number: GM-C49372

Version 4.0.26.1021

Specifications

Description	Mouse_GFRAL HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively expresses the mouse GFRAL gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial,1 mL
Product Format	1 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Mouse_GFRAL
Gene ID/Uniprot ID	Q6SJE0-1(AA Gln 20 - Gly 349)
Host Cell	HEK-293
Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+0.75 μg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Adherent
Growth Conditions	37°C, 5% CO_2
Mycoplasma Testing	The cell line has been screened to confirm the absence of Mycoplasma species.
Safety considerations	Biosafety Level 2
Note	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

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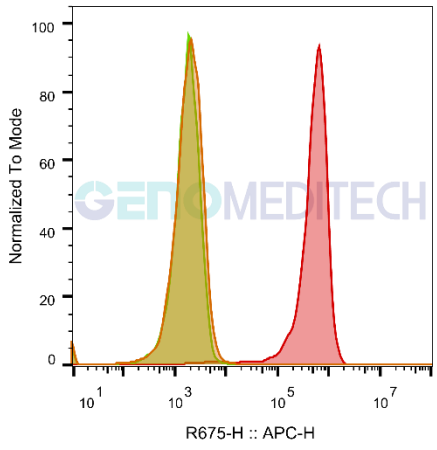
Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-GFRAL hIgG1 Antibody(NGM-120)	Genomeditech/GM-77399AB
Countess 3 Automated Cell Counter	ThermoFisher/A49891
NovoCyte Flow Cytometer	Agilent/NovoCyte 2060R

Data

Expression



	SampleID	Geometric Mean : R675-H
	HEK-293 anti-GFRAL+APC-2nd Ab	1772
	HEK-293 Mouse_GFRAL H_IgG+APC-2nd	1635
	HEK-293 Mouse_GFRAL anti-GFRAL+APC-2nd	4.63E5

Mouse_GFRAL HEK-293 Cell Line (Cat. GM-C49372) was determined by flow cytometry using Anti-GFRAL hIgG1 Antibody(NGM-120) (Cat. GM-77399AB).

Cell Recovery

Recovery Medium: DMEM+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).
b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately 176 x g for 5 minutes. Discard supernatant.
d) Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
e) Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

a) Centrifuge at 176 x g for 3 minutes to collect cells.
b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
c) Aliquot 1 mL into each vial.
d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: DMEM+10% FBS+1% P.S+0.75 μg/mL Puromycin

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

a) Subculturing is necessary when the cell density reaches 80%. It is recommended to perform subculturing at a ratio of 1:3 to 1:4 every 2-3 days. Ensure that the density does not exceed 80%, as overcrowding can lead to reduced viability due to compression.
b) Remove and discard culture medium.
c) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
d) Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell layer is dispersed (usually within 30 to 60 seconds at 37°C).
e) Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
f) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
g) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
h) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) Upon initial thawing, a higher number of dead cells is observed, which is a normal phenomenon. Significant improvement is seen after adaptation. Once the cells reach a stable state, the number of dead cells decreases after subculturing and the cell growth rate becomes stable.

b) Ensure that the cell density does not exceed 80%, as overcrowding may lead to reduced viability due to compression.

Sequence

GFRAL Q6SJE0-1(ECD)

QTNDCAHLIQKCLIDANGCEQSWRSMEDTCLTPGDSCKINNSLHCNLSIQALVEKNFQFKECLCMDDLHCTVNK
LFGKKCTNKTDNMEKDNKDKWNLTTTPFYHGFKQMQSCLEVTEACVGDVVCNAQLALYLKACSANGNLCDV
KHCQAAIRFFYQNMPFNTAQMLAFCDCAQSDIPCQQSKETLHSKPCALNIVPPPTCLSVIHTCRNDELCRTHYRTF
QTECWPHITGKCHEDETCISMLGKQDLTCSGSESCRAAFLGTFGTVLQVPCACRGVTQAEEHVCMIFQHMLHSK
SCFNYPTPNVKDISSYEKKNSKEITLTGFNSFFNG

Related Products

GDF15:GFRAL	
Cynomolgus_GDF15 Reporter 293 Cell Line	H_GDF15 Reporter 293 Cell Line
H_GDF15 Reporter 293 Cell Line (High Basal)	H_GDF15 Reporter 293 DDX35TM Cell Line
Mouse_GDF15 Reporter 293 Cell Line	Cynomolgus_GFRAL CHO-K1 Cell Line
H_GDF15 MC38 Cell Line	H_GFRAL CHO-K1 Cell Line
H_GFRAL HEK-293 Cell Line	Membrane Bound H_GDF15 CHO-K1 Cell Line
Anti-GDF15 hIgG1 Reference Antibody(Ponsbio)	Anti-GDF15 hIgG4 Reference Antibody (Visubio)
Anti-GFRAL hIgG1 Antibody(NGM-120)	Anti-H_GDF15 hIgG4 Antibody(CTL-002)
Anti-H_GFRAL hIgG4 Antibody(QUEL-0301)	
Biotinylated Human GFRAL Protein; His-Avi Tag	Cynomolgus GFRAL Protein; His Tag
Human GDF15 Protein; His Tag	Human GFRAL Protein; hFc Tag
Human GFRAL Protein; His Tag	Human pro-GDF15 Protein; His Tag

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