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Product Sheet

H_GLP1R HEK-293 Cell Line

Catalog number: GM-C35007

Version 3.3.1.251031

H_GLP1R HEK-293 Cell Line is a clonal stable HEK-293 cell line constitutively expressing

Description human GLP1R.

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 Human_GLP1R

Gene ID/Uniprot ID P43220

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% CO₂

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-H_GLP1R hIgG1 Antibody(glutazumab)	Genomeditech/GM-84914AB
GLP-1(7-37) acetate	MCE/HY-P0055A

Figures

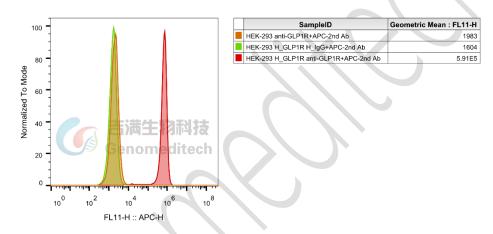


Figure 1 | H_GLP1R HEK-293 Cell Line (Cat. GM-C35007) as determined by flow cytometry using Anti-H_GLP1R hIgG1 Antibody(glutazumab) (Cat. GM-84914AB).

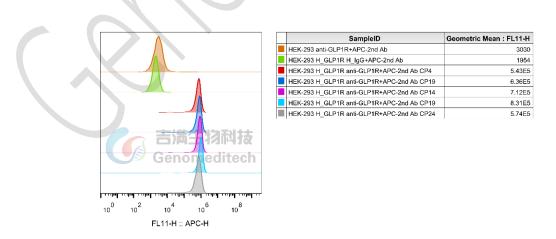


Figure 2 | The passage stability of the H_GLP1R HEK-293 Cell Line (Cat. GM-C35007) was determined by flow cytometry using Anti-H_GLP1R hIgG1 Antibody(glutazumab) (Cat. GM-84914AB).



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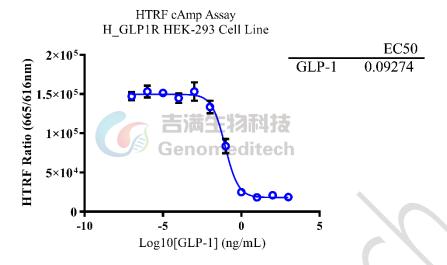


Figure 3 | H_GLP1R HEK-293 cells were seeded at a density of 7500 cells per well in white 384-well micr oplates (5 μ L per well). Gradient-diluted human GLP-1 solutions were then added, and the cells were incubated at room temperature for 30 minutes. The HTRF cAMP Gs Dynamic Detection Kit (Revvity, Cat. No. 62AM4PE B) was used according to the manufacturer's instructions. Fluorescence signals were measured using a M olecular Devices i3x multi-mode plate reader with excitation at 340 nm and emissions detected at 616 nm and d 665 nm. The data were expressed as the 665 nm/616 nm × 100,000 (HTRF Ratio) and used to calculate the EC50 value.

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% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

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Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

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.

Aliquot 1 mL into each vial. c)

Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid d)

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.

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.

Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor. c)

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).

Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. e)

Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.

Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting. f)

After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels. g)

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

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

GLP1R P43220



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MAGAPGPLRLALLLLGMVGRAGPRPQGATVSLWETVQKWREYRRQCQRSLTEDPPPATDLFCNRTFDEYAC WPDGEPGSFVNVSCPWYLPWASSVPQGHVYRFCTAEGLWLQKDNSSLPWRDLSECEESKRGERSSPEEQLLF LYIIYTVGYALSFSALVIASAILLGFRHLHCTRNYIHLNLFASFILRALSVFIKDAALKWMYSTAAQQHQWDGL LSYQDSLSCRLVFLLMQYCVAANYYWLLVEGVYLYTLLAFSVLSEQWIFRLYVSIGWGVPLLFVVPWGIVK YLYEDEGCWTRNSNMNYWLIIRLPILFAIGVNFLIFVRVICIVVSKLKANLMCKTDIKCRLAKSTLTLIPLLGTH EVIFAFVMDEHARGTLRFIKLFTELSFTSFQGLMVAILYCFVNNEVQLEFRKSWERWRLEHLHIQRDSSMKPL KCPTSSLSSGATAGSSMYTATCQASCS

Related Products

GCGR		
H_GCGR Reporter CHO-K1 Cell Line	H_GCGR Reporter HEK-293 Cell Line	
H_GCGR Reporter HEK-293 DDX35TM Cell Line	Cynomolgus_GCGR HEK-293 Cell Line	
H_GCGR CHO-K1 Cell Line	H_GCGR HEK-293 Cell Line	
Mouse_GCGR HEK-293 Cell Line		
Anti-H_GCGR hIgG2 Antibody(volagidemab)	N. X. V.	
GLP1R		
H_GLP1R Reporter CHO-K1 Cell Line	H_GLP1R Reporter HEK-293 Cell Line	
H_GLP1R Reporter HEK-293 DDX35TM Cell Line	H_GLP1R β-Arrestin Reporter CHO-K1 Cell Line	
Cynomolgus_GLP1R GIPR CHO-K1 Cell Line	Cynomolgus_GLP1R HEK-293 Cell Line	
H_GLP1R CHO-K1 Cell Line	H_GLP1R GIPR CHO-K1 Cell Line	
Mouse_GLP1R GIPR CHO-K1 Cell Line	Mouse_GLP1R HEK-293 Cell Line	
Anti-GLP1R hIgG1 Antibody(mAb-36986)	Anti-H_GLP1R hIgG1 Antibody(glutazumab)	
FGFR1		
H_FGF21 Reporter HEK-293 Cell Line		
Human FGF-21 Protein; His Tag		
CALCA(CGRP): CALCRL RAMP		
H_CALCRL RAMP1 Reporter HEK-293 Cell Line	H_CALCRL RAMP1 Reporter HEK-293 DDX35TM Cell Line	
Cynomolgus_CALCRL RAMP1 HEK-293 Cell Line	H_CALCRL RAMP1 CHO-K1 Cell Line	
H_CALCRL RAMP1 HEK-293 Cell Line		
Anti-CALCRL RAMP1 hIgG2 Antibody(Erenumab)		
GIP:GIPR		
H_GIPR Reporter CHO-K1 Cell Line	H_GIPR Reporter HEK-293 Cell Line	
H_GIPR Reporter HEK-293 DDX35TM Cell Line	Cynomolgus_GIPR CHO-K1 Cell Line	
Cynomolgus_GIPR HEK-293 Cell Line	H_GIPR CHO-K1 Cell Line	
H_GIPR HEK-293 Cell Line	Mouse_GIPR CHO-K1 Cell Line	
Mouse_GIPR HEK-293 Cell Line		
Anti-H_GIPR hIgG1 Antibody(AMG-133)		
ACVR2A: ACTRIIB: Active A		
ACVR2A KO HEK-293 Cell Line	Activin A Reporter Cell Line	
BRE Reporter 293 Cell Line	H_ACVR2A Reporter Cell Line	



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H_ACVR2B Reporter Cell Line	ACVR2B KO HEK-293 Cell Line	
H_ACVR2A HEK-293(ACVR2B KO) Cell Line	H_ACVR2B CHO-K1 Cell Line	
H_ACVR2B HEK-293(ACVR2A KO) Cell Line		
Anti-ACVR2B hIgG1 Antibody(Bimagrumab)	Anti-ACVR2B hIgG1 Antibody(Fab-17G05)	
Anti-ACVR2B mIgG2a Antibody(Bimagrumab)	Anti-H_ACVR2B hIgG1 Reference Antibody(Bimbio)	
Biotinylated Human ACVR2A Protein; His-Avi Tag	Biotinylated Human ACVR2B Protein; His-Avi Tag	
Biotinylated Mouse ACVR2A Protein; His-Avi Tag	Biotinylated Mouse ACVR2B Protein; His-Avi Tag	
Human Activin A Protein; His Tag	Human Activin A Protein; His Tag (CHO)	
Human Activin B Protein; His Tag	Human ACVR2A Protein; hFc Tag	
Human ACVR2A Protein; hFc Tag (Sotatercept)	Human ACVR2A Protein; His Tag	
Human ACVR2B Protein; hFc Tag	Human ACVR2B Protein; His Tag	
Human latent GDF-8 Protein; His Tag	Mouse ACVR2A Protein; His Tag	
Mouse ACVR2B Protein; His Tag		
AMY: CALCR RAMP		
H_CALCR RAMP3(AMY3) Reporter CHO-K1 Cell Line	H_CALCR Reporter CHO-K1 Cell Line	
Rat_CALCR Reporter COS-7 Cell Line		
MC4R		
H_MC4R Reporter HEK-293 Cell Line		
ASGR1		
H_ASGR1 CHO-K1 Cell Line	H_ASGR1 HEK-293 Cell Line	

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