Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

Product Sheet

H_GLP1R GIPR CHO-K1 Cell Line

Catalog number: GM-C30471

Version 3.3.1.260201

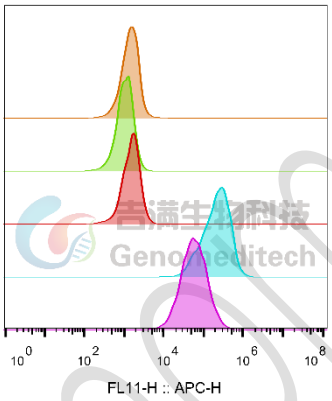
Description	H_GLP1R GIPR CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses the human GIPR and human GLP1R genes, constructed using lentiviral technology.
Quantity	5E6 Cells per vial,1 mL
Product Format	1 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Human GLP1R & Human GIPR
Gene ID/Uniprot ID	P43220 & P48546-1
Host Cell	CHO-K1
Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+200 μg/mL G418+4 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.

Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
G418	Genomeditech/GM-040402
Puromycin	Genomeditech/GM-040401
Anti-H_GIPR hIgG1 Antibody(AMG-133)	Genomeditech/GM-84915AB
Anti-GLP1R hIgG1 Antibody(mAb-36986)	Genomeditech/GM-51168AB
Gastric Inhibitory Peptide (GIP), human	GenScript/RP10795CN
GLP-1(7-37) acetate	MCE/HY-P0055A

Figures



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-GLP1R+APC-2nd Ab	1395
CHO-K1 anti-GIPR+APC-2nd Ab	1051
CHO-K1 H_GLP1R GIPR H_IgG+APC-2nd Ab	1478
CHO-K1 H_GLP1R GIPR anti-GLP1R+APC-2nd Ab	201307
CHO-K1 H_GLP1R GIPR anti-GIPR+APC-2nd Ab	56879

Figure 1 | H_GLP1R GIPR CHO-K1 Cell Line (Cat. GM-C30471) was determined by flow cytometry using Anti-GLP1R hIgG1 Antibody(mAb-36986) (Cat. GM-51168AB) and Anti-H_GIPR hIgG1 Antibody（AMG-133) (Cat. GM-84915AB).

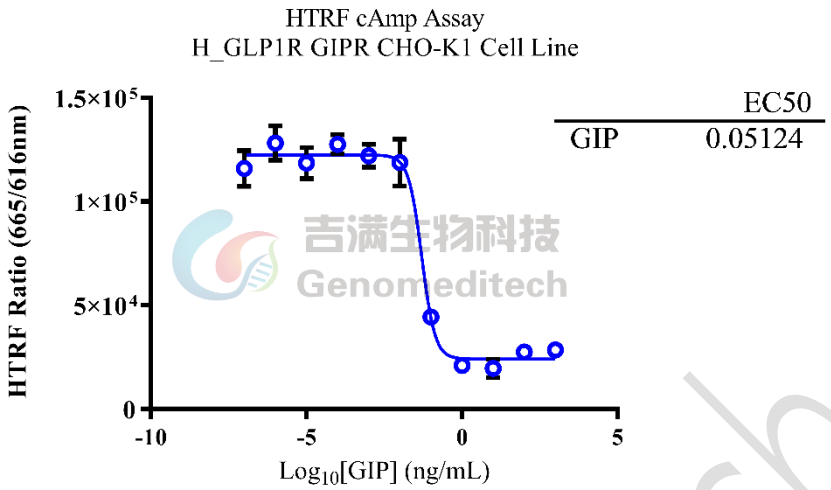


Figure 2 | H_GLP1R GIPR CHO-K1 cells were seeded at a density of 7500 cells per well in white 384-well microplates (5 µL per well). Gradient-diluted Human GIP solutions were then added, and the cells were incubated at room temperature for 30 minutes. The HTRF cAMP Gs Dynamic Detection Kit (Revvity, Cat. No. 62AM4PEB) was used according to the manufacturer's instructions. Fluorescence signals were measured using a Molecular Devices i3x multi-mode plate reader with excitation at 340 nm and emissions detected at 616 nm and 665 nm. The data were expressed as the 665 nm/616 nm × 100,000 (HTRF Ratio) and used to calculate the EC50 value.

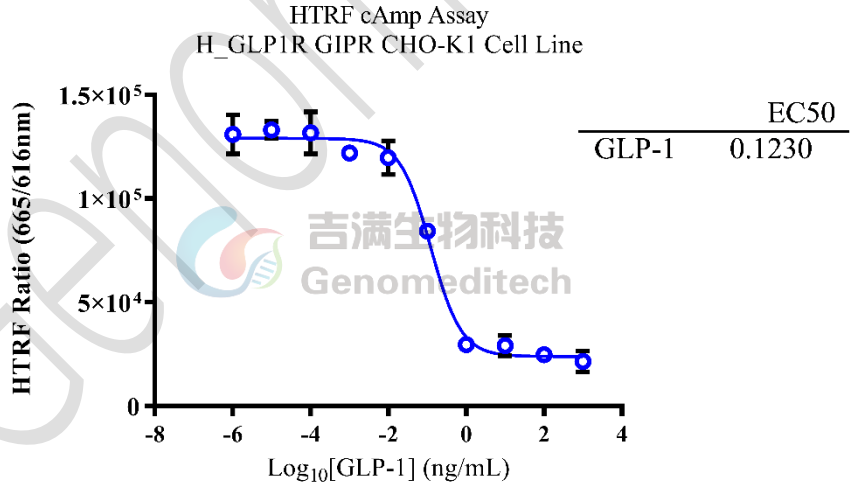
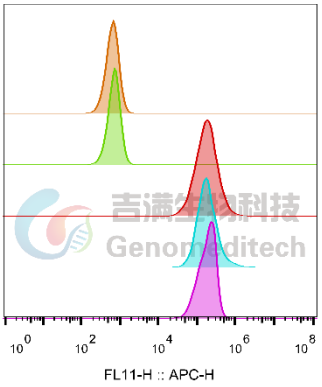


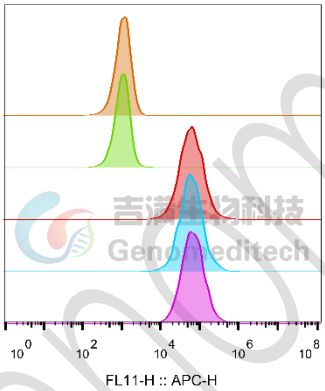
Figure 3 | H_GLP1R GIPR CHO-K1 cells were seeded at a density of 7500 cells per well in white 384-well microplates (5 µL per well). Gradient-diluted Human GLP-1 solutions were then added, and the cells were incubated at room temperature for 30 minutes. The HTRF cAMP Gs Dynamic Detection Kit (Revvity, Cat. No. 62AM4PEB) was used according to the manufacturer's instructions. Fluorescence signals were measured using a Molecular Devices i3x multi-mode plate reader with excitation at 340 nm and emissions detected at 616

nm and 665 nm. The data were expressed as the 665 nm/616 nm × 100,000 (HTRF Ratio) and used to calcul ate the EC50 value.



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-GLP1R+APC-2nd Ab	642
CHO-K1 H_GLP1R GIPR H_IgG+APC-2nd Ab	708
CHO-K1 H_GLP1R GIPR anti-GLP1R+APC-2nd Ab CP3	173578
CHO-K1 H_GLP1R GIPR anti-GLP1R+APC-2nd Ab CP15	182985
CHO-K1 H_GLP1R GIPR anti-GLP1R+APC-2nd Ab CP32	176401

Figure 4 | The passage stability of the H_GLP1R GIPR CHO-K1 Cell Line (Cat. GM-C30471) was determined by flow cytometry using Anti-GLP1R hIgG1 Antibody(mAb-36986) (Cat. GM-51168AB).



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-GIPR+APC-2nd Ab	1063
CHO-K1 H_GLP1R GIPR H_IgG+APC-2nd Ab	1023
CHO-K1 H_GLP1R GIPR anti-GIPR+APC-2nd Ab CP4	60925
CHO-K1 H_GLP1R GIPR anti-GIPR+APC-2nd Ab CP16	59801
CHO-K1 H_GLP1R GIPR anti-GIPR+APC-2nd Ab CP33	66055

Figure 5 | The passage stability of the H_GLP1R GIPR CHO-K1 Cell Line (Cat. GM-C30471) was determined by flow cytometry using Anti-H_GIPR hIgG1 Antibody(AMG-133) (Cat. GM-84915AB).

Cell Recovery

Recovery Medium: F12K+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).

Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

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: F12K+10% FBS+1% P.S+200 μg/mL G418+4 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) Remove and discard culture medium.

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

c) 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 2 to 3 minutes at 37°C).

d) 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.

e) 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 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

GLP1R P43220

MAGAPGPLRLALLLLGMVGRAGPRPQGATVSLWETVQKWREYRRQCQRSLTEDPPPATDLFCNRTFDEYAC
WPDGEPGSFVNVSCPWYLPWASSVPQGHVYRFCTAEGLWLQKDNSSLPWRDLSECEESKRGERSSPEEQLLF
LYIIYTVGYALSFSALVIASAILLGFRHLHCTRNYIHLNLFASFILRALSVFIKDAALKWMYSTAAQQHQWDGL
LSYQDSLSCRLVFLLMQYCVAANYYWLLVEGVYLYTLLAFSVLSEQWIFRLYVSIGWGVPLLFVVPWGIVK
YLYEDEGCWTRNSNMNYWLIIRLPILFAIGVNFLIFVRVICIVVSKLKANLMCKTDIKCRLAKSTLTLIPLLGTH
EVIFAFVMDEHARGTLRFIKLFTELSFTSFQGLMVAILYCFVNNEVQLEFRKSWERWRLEHLHIQRDSSMKPL
KCPTSSLSSGATAGSSMYTATCQASCS*

GIPR P48546-1

MTTSPILQLLLRLSLCGLLLQRAETGSKGQTAGELYQRWERYRRECQETLAAAEPPSGLACNGSFDMYVCW
DYAAPNATARASCPWYLPWHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQRLILERLQVM
YTVGYSLSLATLLLALLILSLFRRLHCTRNYIHINLFTSFMLRAAAILSRDRLLPRPGPYLGDQALALWNQALA
ACRTAQIVTQYCVGANYTWLLVEGVYLHSLLVLVGGSEEGHFRYYLLLGWGAPALFVIPWVIVRYLYENTQ
CWERNEVKAIWWIIRTPILMTILINFLIFIRILGILLSKLRTRQMRCRDYRLRLARSTLTLVPLLGVHEVVFAPVT
EEQARGALRFAKLGFEIFLSSFQGFLVSVLYCFINKEVQSEIRRGWHHCRLRRSLGEEQRQLPERAFRALPSGS
GPGEVPTSRGLSSGTLPGPGNEASRELESYC*

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)	
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 HEK-293 Cell Line
Mouse_GLP1R GIPR CHO-K1 Cell Line	Mouse_GLP1R HEK-293 Cell Line
Rat_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)	
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	ACVR2B KO HEK-293 Cell Line
Activin A Reporter Cell Line	BRE Reporter 293 Cell Line
H_ACVR2A Reporter Cell Line	H_ACVR2B Reporter Cell Line
H_ACVR2B Reporter DDX35TM 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 RAMP3(AMY3) β-Arrestin Reporter CHO-K1 Cell Line
H_CALCR Reporter CHO-K1 Cell Line	H_CALCR β-Arrestin Reporter CHO-K1 Cell Line
Rat_CALCR RAMP3(AMY3) Reporter COS-7 Cell Line	Rat_CALCR Reporter COS-7 Cell Line
THRB	
H_THRβ Reporter HEK-293 Cell Line	
MC4R	
H_MC4R Reporter HEK-293 Cell Line	
ASGR1	
H_ASGR1 CHO-K1 Cell Line	H_ASGR1 HEK-293 Cell Line
Cynomolgus ASGR1 Protein; His Tag	Human ASGR1 Protein; His Tag

Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

License Agreement:

By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:

- This cell line product is restricted to research use only and shall not be used for any commercial purposes.
- This product is strictly prohibited from being used in the diagnosis or treatment of human or animal diseases, and shall not be directly used in experiments involving humans.
- Users and their contractors engaged for their benefit may use this material and its derivatives only within the agreed research scope; modification of the material is not permitted, nor may it be distributed, sold, transferred, or otherwise provided to any other entity (including affiliates).
- If use beyond the above scope is required, prior written permission from Genomeditech (Shanghai) Co.,Ltd. must be obtained. For details, please contact Genomeditech (Shanghai) Co.,Ltd.