

# Product Sheet

## Mouse\_GLP1R GIPR CHO-K1 Cell Line

Catalog number: GM-C35060

Version 3.3.1.250815

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Mouse_GLP1R GIPR CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses the Mouse GLP1R and Mouse GIPR genes, constructed using lentiviral technology. |
| <b>Quantity</b>              | 5E6 Cells per vial, 1 mL   |
| <b>Product Format</b>        | 1 vial of frozen cells   |
| <b>Shipping</b>              | Shipped on dry ice   |
| <b>Storage Conditions</b>    | Liquid nitrogen immediately upon receipt   |
| <b>Target</b>                | Mouse_GLP1R & Mouse_GIPR   |
| <b>Gene ID/Uniprot ID</b>    | O35659 & Q0P543-1  |
| <b>Host Cell</b>             | CHO-K1   |
| <b>Recovery Medium</b>       | F12K+10% FBS+1% P.S  |
| <b>Growth medium</b>         | F12K+10% FBS+1% P.S+100 µg/mL Hygromycin+4 µg/mL Puromycin   |
| <b>Note</b>                  | None   |
| <b>Freezing Medium</b>       | 90% FBS+10% DMSO   |
| <b>Growth properties</b>     | Adherent   |
| <b>Growth Conditions</b>     | 37°C, 5% CO <sub>2</sub>   |
| <b>Mycoplasma Testing</b>    | The cell line has been screened to confirm the absence of Mycoplasma species.  |
| <b>Safety considerations</b> | Biosafety Level 2  |
| <b>Note</b>                  | It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.   |

## Materials

| Reagent                              | Manufacturer/Catalogue No.               |
|--------------------------------------|--|
| F12K                                 | BOSTER/PYG0036                           |
| Fetal Bovine Serum                   | ExCell/FSP500                            |
| Pen/Strep                            | Thermo/15140-122                         |
| Puromycin                            | Genomeditech/ <a href="#">GM-040401</a>  |
| Hygromycin                           | Genomeditech/ <a href="#">GM-040403</a>  |
| Anti-GLP1R hIgG1 Antibody(mAb-36986) | Genomeditech/ <a href="#">GM-51168AB</a> |
| Anti-H_GIPR hIgG1 Antibody(AMG-133)  | Genomeditech/ <a href="#">GM-84915AB</a> |

## Figures

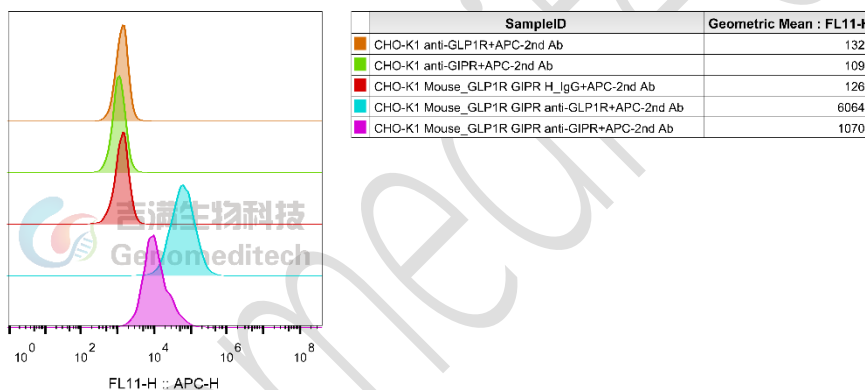


Figure 1 | Mouse\_GLP1R GIPR CHO-K1 Cell Line (Cat. GM-C35060) was determined by flow cytometry using Anti-H\_GIPR hIgG1 Antibody (AMG-133) (Cat. [GM-84915AB](#)) and Anti-GLP1R hIgG1 Antibody(mAb-36986) (Cat. [GM-51168AB](#)).

## 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.

- 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).
- 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<sub>2</sub> 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+100 µg/mL Hygromycin+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 [O35659](#)

MASTPSLLRLALLLLGAVGRAGPRPQGTTVSLSETVQKWREYRRQCQRFLTEAPLLATGLFCNRTFDDYAC  
 WPDGPPGSFVNVSCPWYLPWASSVLQGHVYRFCTAEGLWLHKDNSSLPWRDLSECEESKRGERNFPEEQLL  
 SLYIIYTVGYALSFSALVIASAILVGFRHLHCTRNYIHLNLFASFILRALSVFIKDAALKWMYSTAAQQHQWD  
 GLLSYQDSLGCRLVFLLMQYCAANYYWLLVEGVYLYTLLAFSVFSEQRIFKLYLSIGWGVPLLFVIPWGIV  
 KYLYEDEGCWTRNSNMNYWLIIRLPILFAIGVNFLIFIRVICIVVSKLKANLMCKTDIKCRLAKSTLTLIPLLT  
 HEVIFAFVMDEHARGTLRFIKLFTELSFTSFQGLMVAILYCFVNNEVQMEFRKCWERWRLEHLNIQRDCSMK  
 PLKCPTSSVSSGATVGSSVYAATCQSSYS

#### GIPR Q0P543-1

MPLRLLLLLLWLWGLQWAETDSEGQTTTGELYQRWEHYGQECQKMLETTEPPSGLACNGSFDMYACWNY  
 TAANTTARVSCPWYLPWFRQVSAGFVFRQCSDGQWGSWRDHTQCENPEKNGAFQDQTLILRLQIMYTV  
 GYSLSLTLLALLLILSLFRRLHCTRNYIHMNLFTSFMLRAAAILTRDQLLPPLGPYTGDAQPTPWNQALAAC  
 RTAQIMTQYCVGANYTWLLVEGVYLHLLVIVGRSEKGFHRCYLLLGWAPALFVIPWVIVRYLRENTQCW  
 ERNEVKAIWWIIRTPILITILINFLIFIRILGILVSKLRTQMRCPDYRLRLARSTLTLVPLLGVHEVVFAPVTEEQ  
 VEGSLRFAKLAFEIFLSSFGFLVSVLYCFINKEVQSEIRQGWRRRLRLSLQEQRP RP HQELAPRAVPLSSAC  
 REAAVGNALPSGMLHVP GDEVLESYC

## Related Products

| GCGR   |   |
|--|---|
| <a href="#">H_GCGR Reporter CHO-K1 Cell Line</a>           | <a href="#">H_GCGR Reporter HEK-293 Cell Line</a>                 |
| <a href="#">H_GCGR Reporter HEK-293 DDX35TM Cell Line</a>  | <a href="#">Cynomolgus_GCGR HEK-293 Cell Line</a>                 |
| <a href="#">H_GCGR CHO-K1 Cell Line</a>                    | <a href="#">H_GCGR HEK-293 Cell Line</a>                          |
| <a href="#">Mouse_GCGR HEK-293 Cell Line</a>               |   |
| <a href="#">Anti-H_GCGR hIgG2 Antibody(volagidemab)</a>    |   |
| GLP1R  |   |
| <a href="#">H_GLP1R Reporter CHO-K1 Cell Line</a>          | <a href="#">H_GLP1R Reporter HEK-293 Cell Line</a>                |
| <a href="#">H_GLP1R Reporter HEK-293 DDX35TM Cell Line</a> | <a href="#">H_GLP1R β-Arrestin Reporter CHO-K1 Cell Line</a>      |
| <a href="#">Cynomolgus_GLP1R HEK-293 Cell Line</a>         | <a href="#">H_GLP1R CHO-K1 Cell Line</a>                          |
| <a href="#">H_GLP1R GIPR CHO-K1 Cell Line</a>              | <a href="#">H_GLP1R HEK-293 Cell Line</a>                         |
| <a href="#">Mouse_GLP1R HEK-293 Cell Line</a>              |   |
| <a href="#">Anti-GLP1R hIgG1 Antibody(mAb-36986)</a>       | <a href="#">Anti-H_GLP1R hIgG1 Antibody(glutazumab)</a>           |
| FGFR1  |   |
| <a href="#">H_FGF21 Reporter HEK-293 Cell Line</a>         |   |
| <a href="#">Human FGF-21 Protein; His Tag</a>              |   |
| CALCA(CGRP): CALCRL RAMP                                   |   |
| <a href="#">H_CALCRL RAMP1 Reporter HEK-293 Cell Line</a>  | <a href="#">H_CALCRL RAMP1 Reporter HEK-293 DDX35TM Cell Line</a> |
| <a href="#">Cynomolgus_CALCRL RAMP1 HEK-293 Cell Line</a>  | <a href="#">H_CALCRL RAMP1 CHO-K1 Cell Line</a>                   |
| <a href="#">H_CALCRL RAMP1 HEK-293 Cell Line</a>           |   |
| <a href="#">Anti-CALCRL RAMP1 hIgG2 Antibody(Erenumab)</a> |   |
| GIP:GIPR   |   |
| <a href="#">H_GIPR Reporter CHO-K1 Cell Line</a>           | <a href="#">H_GIPR Reporter HEK-293 Cell Line</a>                 |

|  |  |
|--|--|
| 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)            |  |
| <b>ACVR2A: ACTRIIB: Active A</b>               |  |
| ACVR2A 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                    | 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                  |  |
| <b>AMY: CALCR RAMP</b>                         |  |
| H_CALCR RAMP3(AMY3) Reporter CHO-K1 Cell Line  | H_CALCR Reporter CHO-K1 Cell Line              |

## License Agreement:

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

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