

Product Sheet

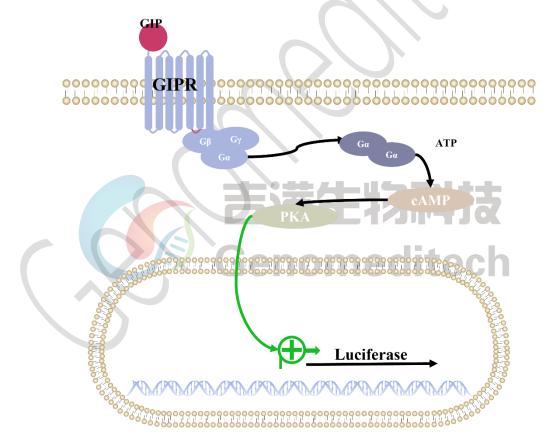
H_GIPR Reporter CHO-K1 Cell Line

Catalog number: GM-C25536

Version 3.3.1.241129

Gastric inhibitory polypeptide receptor (GIPR) is a protein encoded by the GIPR gene in the human body, activated by gastric inhibitory polypeptide (GIP), and belongs to a family of G protein-coupled receptors. GIPR is mainly found in the β cells of the pancreas. When GIP activates GIPR, it binds to the heterotrimeric Gs ($\alpha\beta\gamma$), inducing the activation of adenylate cyclase, which increases the levels of cAMP in the cytoplasm. The rise in cAMP activates PKA, leading to the phosphorylation of proteins that regulate gene transcription, causing them to relocate to the nucleus.

H_GIPR Reporter CHO-K1 Cell Line is a clonal stable CHO-K1 Cell Line constitutively expressing the human GIPR, along with signal-dependent expression of a luciferase reporter gene. The binding of GIP to GIPR activates downstream reporter genes, leading to luciferase expression. The luciferase readout represents the activation level of the signaling pathway and can thus be used for evaluating the in vitro effects of related drugs of GIPR.



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Specifications

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		
Recovery Medium	F12K+10% FBS+1% P.S		
Growth medium	F12K+10% FBS+1% P.S+4 µg/mL Blasticidin+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.		
Materials			

Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
GIP(Human)	PHOENIX/027-02
Gastric Inhibitory Peptide (GIP), human	GenScript/RP10795CN
GMOne-Step Luciferase Reporter Gene Assay Kit	Genomeditech/GM-040503

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Figures

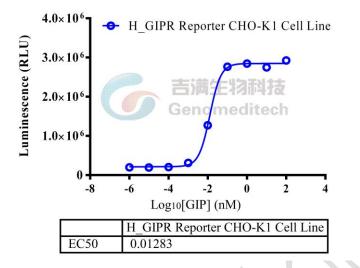


Figure 1 | Response to GIP (Human). H_GIPR Reporter CHO-K1 Cell Line (Cat. GM-C25536) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of GIP(Human) (PHOENIX/027-02) in assay buffer (F12K + 1% FBS + 1% P.S) for 16 hours. The firefly luciferase activity was measured using the ONE-Glo[™] Luciferase Assay System (Promega/E6120). The maximum induction fold was approximately [15.3]. Data are shown by drug molar concentration.

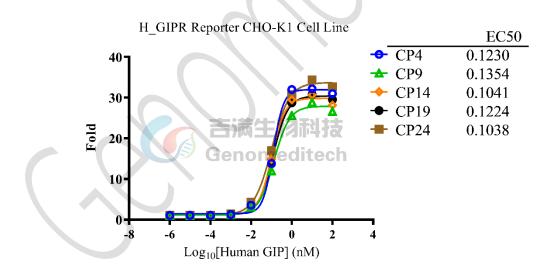


Figure 2 | Response to Gastric Inhibitory Peptide (GIP), human. The passage 4, 9, 14, 19 and 24 of H_GIPR Reporter CHO-K1 Cell Line (Cat. GM-C25536) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Gastric Inhibitory Peptide (GIP) (Genscript/RP10795CN) in assay buffer (F12K + 1% FBS + 1% P.S) for 16 hours. The firefly luciferase activity was measured using the GMOne-Step Luciferase Reporter Gene Assay Kit (Cat. GM-040503). Data are shown by drug molar concentration.

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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).
- 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.

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+4 µg/mL Blasticidin+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).
- 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

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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.

Related Products

GCGR				
H_GCGR Reporter CHO-K1 Cell Line	H_GCGR Reporter 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	Cynomolgus_GLP1R HEK-293 Cell Line			
H_GLP1R CHO-K1 Cell Line	H_GLP1R HEK-293 Cell Line			
Mouse_GLP1R HEK-293 Cell Line				
Anti-GLP1R hIgG1 Antibody(mAb-36986)	Anti-H_GLP1R hIgG1 Antibody(glutazumab)			
FGF21:FGFR				
H_FGF21 Reporter HEK-293 Cell Line				
CALCA(CGRP): CALCRL RAMP				
H_CALCRL RAMP1 Reporter HEK-293 Cell Line	Cynomolgus_CALCRL RAMP1 HEK-293 Cell Line			
H_CALCRL RAMP1 CHO-K1 Cell Line	H_CALCRL RAMP1 HEK-293 Cell Line			
H_CALCRL RAMP2(AM1) CHO-K1 Cell Line	H_CALCRL RAMP3(AM2) CHO-K1 Cell Line			
Anti-CALCRL RAMP1 hIgG2 Antibody(Erenumab)				
GIP:GIPR				
H_GIPR Reporter HEK-293 Cell Line	H_GIPR Reporter HEK-293 DDX35TM Cell Line			
Cynomolgus_GIPR HEK-293 Cell Line	H_GIPR CHO-K1 Cell Line			
H_GIPR HEK-293 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			
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 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			

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Human Activin A Protein; His Tag	Human Activin B Protein; His Tag		
Human ACVR2A Protein; hFc Tag	Human ACVR2A Protein; His Tag		
Human ACVR2B Protein; hFc Tag	Human ACVR2B 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		

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