HEK293/Human GIPR Stable Cell Line (High Expression) Data Sheet

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Catalog No.	Size
CHEK-ATP206	2 × (1 vial contains ~5×10^6 cells)

• *Description*

The HEK293/Human GIPR Stable Cell Line was engineered to express the receptor full length human GIPR (Gene ID: 2696), with different levels of GIPR expression (High, Medium, Low). Surface expression of human GIPR was confirmed by flow cytometry.

• *Application*

- Useful for cell-based GIPR binding assay
- Screen for human GIPR agonists based on cAMP accumulation assay

• *Cell Line Profile*

Cell line	HEK293/Human GIPR Stable Cell Line (High Expression)
Host Cell	HEK293
Property	Adherent
Complete Growth Medium	DMEM + 10% FBS
Selection Marker	Hygromycin B (20 μg/mL)
Incubation	37°C with 5% CO_2
Doubling Time	22-24 hours
Transduction Technique	Lentivirus

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- ***Materials Required for Cell Culture***
  - DMEM Medium (BasalMedia, Cat. No. L120KJ)

    Note: If you are unable to obtain the specified DMEM medium (BasalMedia, Cat. No. L120KJ) in China, you may use an alternative DMEM medium (Gibco, Cat. No. 11965-092) or another suitable medium for culturing.
  - Fetal bovine serum (CellMax, Cat. No. SA211.02)
  - Hygromycin B (Invitrogen, Cat. No. 10687010)
  - 0.25% Trypsin-EDTA (1X), Phenol Red (Gibco, Cat. No. 25200-056)
  - Penicillin-Streptomycin (Gibco, Cat. No. 15140-122)
  - Phosphate Buffered Saline (1X) (HyClone, Cat. No. SH30256.01)
  - Complete Growth Medium: DMEM + 10% FBS, 1%P/S
  - Culture Medium: DMEM + 10% FBS, Hygromycin B (20 μg/mL), 1%P/S
  - Freeze Medium: 90% FBS, 10% (V/V) DMSO
  - T-75 Culture flask (Corning, Cat. No. 430641)
  - Cryogenic storage vials (SARSTEDT, Cat. No. 72.379.007)
  - Thermostat water bath
  - Centrifuge (Cence, Model: L550)
  - Cell counter (MONWEI, Model: SmartCell200A Plus)
  - CO_2 Incubator (Thermo, Model: 3111)
  - Biological Safety Cabinet (Thermo, Model: 1389)

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• *Recovery*

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 70% ethanol. All the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 4.0 mL complete growth medium and spin at approximately 1000 rpm for 5 minutes.
4. Resuspend cell pellet with 5 mL complete growth medium and transfer the cell suspension into T-75 flask containing 10-15 mL of pre-warmed complete growth medium.
5. Incubate at 37°C with 5% CO_2 incubator until the cells are ready to be split.

• *Subculture*

1. Remove and discard culture medium.
2. Wash the cells once with sterile PBS.
3. Add 2 mL of 0.25% trypsin to cell culture flask. Place the flask at 37°C for 2-3 minutes, until 90% of the cells have detached.
4. Add 6.0 to 8.0 mL of culture medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessel.
6. Incubate at 37°C with 5% CO_2 incubator.

Subcultivation Ratio: A subcultivation ratio of 1:6 to 1:10 is recommended.

Medium Renewal: Every 2 to 3 days.

Note: After recovery for 1-2 generations with the complete growth medium not containing the selection marker, if the cell state is well, changing to the culture medium containing the selection marker.

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• *Cryopreservation*

1. Remove and discard spent medium.
2. Detach cells from the cell culture flasks with 0.25% trypsin.
3. Centrifuge at 1000 rpm for 5 min at RT to pellet cells.
4. Resuspend the cell pellets with complete growth medium and count viable cells.
5. Centrifuge at 1000 rpm for 5 min at RT and resuspend cells in freezing medium to a concentration of 5×10^6 to 1×10^7 cells/mL.
6. Aliquot into cryogenic storage vials. Place vials in a programmable cooler or an insulated box placed in a –80°C freezer overnight, then transferring to liquid nitrogen storage.

• *Storage*

- **Product format:** Frozen
- **Storage conditions:** Liquid nitrogen immediately upon receipt

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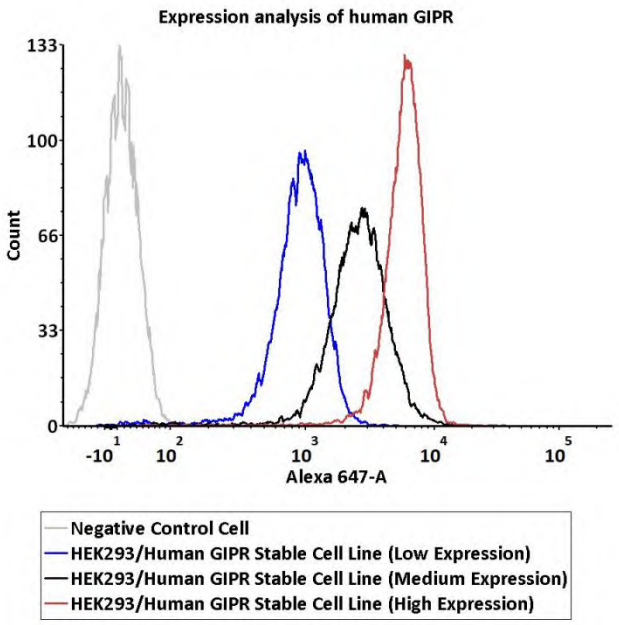
- ***Receptor Assay***



Catalog No.	Stable Cell Line	MFI for GIPR (Alexa Fluor® 647)
CHEK-ATP208	HEK293/Human GIPR Stable Cell Line (Low Expression)	897.15
CHEK-ATP207	HEK293/Human GIPR Stable Cell Line (Medium Expression)	2495.80
CHEK-ATP206	HEK293/Human GIPR Stable Cell Line (High Expression)	5716.90

Fig1. Expression analysis of human GIPR on HEK293/Human GIPR Stable Cell Line by FACS. Cell surface staining using Alexa Fluor® 647-labeled anti-human GIPR antibody was performed on HEK293/Human GIPR Stable Cell Line with different expression levels: HEK293/Human GIPR Stable Cell Line (Low Expression); HEK293/Human GIPR Stable Cell Line (Medium Expression); HEK293/Human GIPR Stable Cell Line (High Expression).

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Products	Cat.No.
HEK293/Human GIPR Stable Cell Line (Medium Expression)	CHEK-ATP207
HEK293/Human GIPR Stable Cell Line (Low Expression)	CHEK-ATP208
HEK293/Human GLP-1R Stable Cell Line (High Expression)	CHEK-ATP160
HEK293/Human GLP-1R Stable Cell Line (Medium Expression)	CHEK-ATP161
HEK293/Human GLP-1R Stable Cell Line (Low Expression)	CHEK-ATP162
HEK293/Human ASGR1 Stable Cell Line	CHEK-ATP080
Human GLP-1R (Luc) HEK293 Reporter Cell	CHEK-ATF096
Human GCGR (Luc) HEK293 Reporter Cell	CHEK-ATF103
Human GIPR (Luc) HEK293 Reporter Cell	CHEK-ATF104
Human FGF-21 (Luc) HEK293 Reporter Cell	CHEK-ATF163
Human Activin RII (Luc) HEK293 Reporter Cell	CHEK-ATF164
HEK293/Human ASGR1&ASGR2 Stable Cell Line	CHEK-ATP172
HEK293/Human GPR75 Stable Cell Line	CHEK-ATP174
Human THRB (Luc) HEK293 Reporter Cell	CHEK-ATF181
Human THRA (Luc) HEK293 Reporter Cell	CHEK-ATF180
HEK293/Human GLP-1R&GIPR Stable Cell Line	CHEK-ATP205