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Product Sheet

H_TSLPR IL7RA BaF3 Cell Line

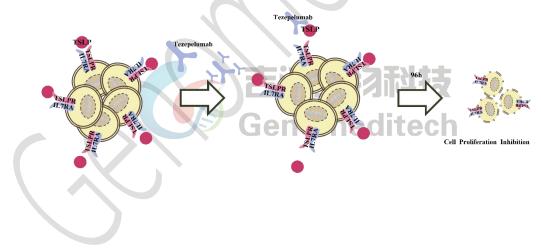
Catalog number: GM-C15622

Version 3.3.1.251013

Thymic stromal lymphopoietin (TSLP) is a protein belonging to the cytokine family. It plays an important role in the maturation of T-cell populations by activating antigen-presenting cells. TSLP is produced primarily by non-hematopoietic cells, such as fibroblasts, epithelial cells, and various types of stromal or stromal-like cells. TSLP forms a ternary signaling complex with the thymic stromal lymphopoietin receptor CRLF2 (TSLPR) and the IL-7R α chain, thereby activating downstream signaling.

Upon binding to TSLPR, TSLP promotes dimerization that enhances the recruitment of IL- $7R\alpha$, forming an extracellular ternary complex that transduces signals. The TSLP-guided complex strengthens the functional polarization of dendritic cells, epithelial cells, and helper T cells (especially Th2/Tfh-like programs) by increasing receptor surface stability and the spatiotemporal persistence of signaling. This, in turn, promotes the production of type 2 inflammatory cytokines such as IL-4, IL-5, and IL-13, and is closely associated with barrier tissue inflammation, allergic responses, and asthma.

H_TSLPR IL7RA BaF3 Cell Line is a clonal stable BaF3 cell line constructed using lentiviral technology, constitutive expression of the human TSLPR and human IL-7R α genes. Can be used for the development and validation of related drugs.





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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 RPMI 1640+10% FBS+1% P.S+200 ng/mL TSLP

Growth medium RPMI 1640+10% FBS+1% P.S+200 ng/mL TSLP+400 µg/mL G418+1 µg/mL Puromycin

Note None

Freezing Medium 90% FBS+10% DMSO

Growth properties Suspension **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.

Materials

| Reagent | Manufacturer/Catalogue No. |
|---|----------------------------|
| RPMI 1640 | gibco/C11875500BT |
| Fetal Bovine Serum | ExCell/FSP500 |
| Pen/Strep | Thermo/15140-122 |
| Human TSLP Protein; His Tag | Genomeditech/GM-87654RP |
| G418 | Genomeditech/GM-040402 |
| Puromycin | Genomeditech/GM-040401 |
| Anti-TSLP hIgG2 Reference Antibody (Tezbio) | Genomeditech/GM-87344MAB |
| GMTiter™ Luminescent Cell Viability Assay | Genomeditech/GM-040504 |



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Figures

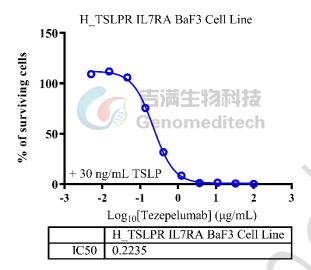


Figure 1 | Cell proliferation assay. The H_TSLPR IL7RA BaF3 Cell Line (Cat. GM-C15622) at a concentration of 1E3 cells/well (96-well format) was treated with serial dilutions of Anti-TSLP hIgG2 Reference Antibody (Tezbio)(Cat. GM-87344MAB) in assay buffer (RPMI 1640+10% FBS+1% P.S) for 96 hours. The firefly luciferase activity was measured the GMTiter™ Luminescent Cell Viability Assay (Cat. GM-040504).

Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S+200 ng/mL TSLP

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 complete medium. And dispense the suspension into 1-2 T-25 culture flasks.
- 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



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- 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 vials 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: RPMI 1640+10% FBS+1% P.S+200 ng/mL TSLP+400 µg/mL G418+1 µg/mL Puromycin

Approximately 48-72 hours after the initial thawing, the cells can be passaged for the first time. After this initial passage, the culture medium can be adjusted to growth medium supplemented with antibiotics. If cells are not passaged within 48 hours, it is recommended to add some fresh recovery medium and place the flask horizontally.

- a) When the cell density reaches 1 1.2E6 cells/mL, subculture the cells. Do not allow the cell density to exceed 1.4E6 cells/mL.
- b) It is recommended to use T-25 flasks for subculturing.
- c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.
- d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

Subcultivation Ratio: Maintain cultures at a cell concentraion between 3E5 and 1E6 viable cells/mL.

Medium Renewal: Every 2 to 3 days

Notes

- a) These cells are sensitive to density, so please ensure that the cell density is maintained within an appropriate range during culture and subculturing.
- b) During the first passage, pay attention to the nutrient supply; if not subculturing, make sure to add fresh recovery medium every other day as needed.

Related Products

| IL-4/IL-13 | |
|---|-------------------------------------|
| IL-4 Reporter Cell Line | IL-4/IL-13 Reporter 293 Cell Line |
| IL-4/IL-13 Reporter 293 DDX35TM Cell Line | Cynomolgus_IL4R CHO-K1 Cell Line |
| H_IL4R CHO-K1 Cell Line | Mouse_IL4R CHO-K1 Cell Line |
| Anti-IL-4R hIgG1 Antibody(12B5) | Anti-IL4R hIgG4 Antibody(Dupilumab) |
| Anti-IL4R hIgG4 Reference Antibody (Dupbio) | |
| Biotinylated Human IL-4R alpha Protein; Avi-His Tag | Cynomolgus IL-13 Protein; His Tag |
| Cynomolgus IL-4R alpha Protein; His Tag | Human IL-13 Protein; His Tag |
| Human IL-4 Protein; His Tag | Human IL-4R alpha Protein; hFc Tag |



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| Human IL-4R alpha Protein; His Tag | Human IL-4R alpha Protein; mFc Tag | |
|--|---|--|
| Mouse IL-13 Protein; His Tag | Mouse IL-4R alpha Protein; His Tag | |
| Rat IL-4R alpha Protein; His Tag | | |
| TSLP:TSLPR | | |
| H_TSLP Reporter 293 Cell Line | H_TSLP Reporter Cell Line | |
| H_TSLPR CHO-K1 Cell Line | | |
| Anti-H_TSLPR hIgG1 Antibody | Anti-TSLP hIgG2 Antibody(Tezepelumab) | |
| Anti-TSLP hIgG2 Reference Antibody (Tezbio) | | |
| Biotinylated Human TSLP Protein; His-Avi Tag | Cynomolgus TSLP Protein; His Tag | |
| Human TSLP Protein; hFc Tag | Human TSLP Protein; His Tag | |
| Human TSLPR Protein; His Tag | | |
| IL-5 | | |
| H_IL-5 Reporter 293 Cell Line | H_IL-5RA CHO-K1 Cell Line | |
| H_IL-5RA HEK-293 Cell Line | | |
| Anti-IL5 hIgG4 Antibody(Reslizumab) | Anti-IL-5R hIgG1 Antibody(Benralizumab) | |

License Agreement:

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