ActiveMax® Human CD229 μBeads, premium grade (for cells)

Cat. No. MBS-C010

Product Information

Product	Size	Amount
ActiveMax® Human CD229 μBeads, premium grade (for cells)	2.5 mg	2.5×10^{7} beads

Product Description

ActiveMax® Human CD229 μBeads, premium grade (for cells) are uniform, superparamagnetic beads of 5.5 μm in diameter with streptavidin coupled onto its surface, and immobilized with biotinylated Human CD229 / SLAMF3 protein (premium grade), expressed from human 293 cells (HEK293) and contains AA Lys 48 - Lys 454 (Accession # Q9HBG7-1).

ActiveMax® Human CD229 μBeads, premium grade (for cells) are produced under sterile manufacturing conditions (ISO 5), and no animal- or human-derived components are used throughout the production process. It is produced under our rigorous quality control system that includes a comprehensive set of tests including sterility and endotoxin tests.

Product Applications

ActiveMax® Human CD229 μBeads, premium grade (for cells) are designed to stimulate in vitro CD229-specific CAR-T cells or UCAR-T cells, similar to the tumor cell lines that express human CD229 antigen. It can be used as follows:

- Evaluating the characteristics of CD229-specific CAR-T cells or UCAR-T cells.
- In vitro expansion of CD229-specific CAR-T cells or UCAR-T cells.
- In vitro enrichment of CD229-specific CAR-T cells or UCAR-T cells.

This product is for research use only and not intended for therapeutic or *in vitro* diagnostic use.

The Product performance has been carefully validated and tested for compatibility for cell culture or any other applications in the early preclinical stage. For use in clinical phases, we also offer a custom GMP product service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based.

Formulation

Lyophilized in PBS with 0.1% HSA, pH 7.4. Trehalose is added as protectant before lyophilization.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the Certificate of Analysis.

Storage

This product is stable in storage under the following conditions:

- -20˚C for 12 months in lyophilized state.
- -70°C for 3 months under sterile conditions after reconstitution.

Please avoid repeated freeze-thaw cycles after reconstitution. Immediate use after reconstitution is highly recommended.

Important Note

This product is for research use only and not intended for therapeutic or *in vitro* diagnostic use.

General guidelines

It is recommended to reconstitute the lyophilized ActiveMax® Human CD229 μBeads, premium grade (for cells) with sterile deionized water to a stock solution of 5 mg/mL (5×10^7 beads/mL) under ISO 5 clean conditions. Separate into working aliquots and store at -70°C immediately. Upon reconstitution, immediate use is recommended for best performance.

Use a magnetic separator that is suitable for your equipment and application. Allow the beads to separate for at least 1 minute before removing supernatant. The μbeads are dense and will settle very quickly. Be sure that any μbeads mixture is homogenous before use or aliquoting.

Preparing μbeads for use

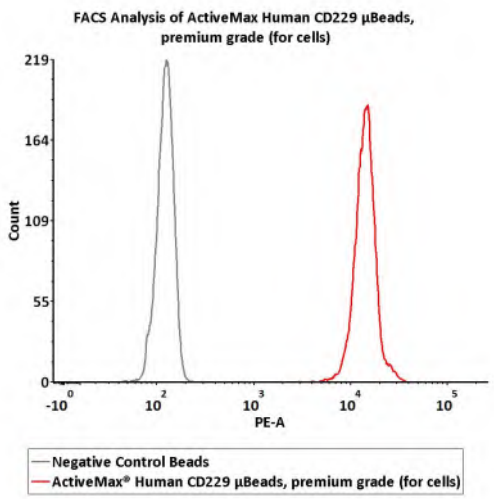
Washing the ActiveMax® Human CD229 μBeads, premium grade (for cells) to remove trehalose from the formulation buffer before use.

1. Resuspend the μBeads in the vial (i.e. vortex for >30 sec, or tilt and rotate for 5 min).
2. Transfer the desired volume of Magnetic Beads to a sterile tube.
3. Add an equal volume of sterile PBS buffer, or at least 1 mL, and mix (vortex for 5 sec, or keep on a roller for at least 2 min).
4. Place the tube on a magnet for more than1 min and let the μbeads settle, then discard the supernatant.
5. Remove the tube from the magnet and resuspend the washed μBeads in the same volume of desired cell culture medium as the initial volume of added μBeads in **step 2**.

Contact Information

If you have any questions, please contact our technical support team at: **TechSupport@acrobiosystems.com**

- **Conjugated human CD229 analyzed by FACS**



Assay of human CD229 protein on the µBeads surface by Flow cytometry. The human CD229 conjugated on the µBeads (Cat. No. MBS-C010) surface were fluorescently stained using PE labeled anti-human CD229 antibody and analyzed by flow cytometry.